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3.3.1 Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years

Research Article Titles

- 1. Theme of Environment in Margaret Atwood's MaddAddam Trilogy
- 2. Synthesis of Phyto based nanoparticles
- Antimicrobial activity of Eyeliner extracted from Natural Sources (Castor oil &Sandal wood)
- 4. GEOMETRICAL APPROACH FOR CHARACTERIZATION OF SOIL CALCAREOUS IN SEMI ARID REGION OF TELANGANA STATE INDIA
- 5. Biogenic synthesis and characterization of Metal Sulphide nanocomposites and its application to seed germination
- 6. Challenges in Scrum Agile Development
- 7. A Novel Approach in Designing pantomime pointer
- 8. Low complexicity Early Employee Attrition Analysis Using Boosting and Non-Boosting MI Technique
- 9. Review on Agile Modelling for Distributed development



- 10.Employee Attrition prediction based on Grey wolf Optimization and Deep Neutral networks
- 11. Analytical Survey on Prediction of Employee Attrition Non Parametric Tuning Algorithms
- 12.Bioethanol production from Ixora coccinea and Quisqualis indica flowers
- 13.Production of value added products from lignocellulosic biomass by fermentation using white rot fungi and yeast
- 14.Bioethanol production with the inoculation of yeast using vegetable and fruit wastes as substrate
- 15.Attitude of Teachers, students and parents towards continuous and comprehensive evolution
- 16.Fekete-Szeg[•]o inequality of bi-starlike and bi-convex functions of order b associated with symmetric q-derivative in conic domains
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- 26.studies on physico chemical variations of budharam lake in relation to seasonal variations abd its productivity
- 27.Importance, threats and conservation stategies of Telangana state bird, palapitta
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- 32.Changing of Socio-Economic and cultural life of Lambadas with special reference to Nalgonda District (1956-2014 AD)
- 33.Dynamic Support Range based Rare Pattern Mining over Data Streams" International Journal of Advanced Computer Science and Applications(IJACSA)
- 34.Rare pattern Mining from date Stream using Hash-Based Search and Vertical Mining
- 35. Variations in the serity of symptoms, DAS28 and Diability index among Vata Predomination Deha-Prakriti individuals of Amavata-An Analytical Observational Study
- 36.Significance of Nyayas (Maxims) in Understanding Philosophical Aspects of Ayurveda: A Critical Review.
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- 38. Ancient archives of Deha-Prakriti (Human body constitution) in Ayurvedic Literature: A Critical Review.
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- 41.Influence of Deha-Prakriti (Body Constitution) in the manifestation of disease in context to Amavata (Rheumatoid Arthritis) An appraisal
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 45.కన్న తల్లి కథలో తల్లీ (మేమ వ్యవసాయం, భావ వీణ
 46.వసూస కథలో [సీ పాత్ర చి[తాన, భావ వీణ
 47.రామచంద్ర మౌళి సాహిత్యంలో వస్తు వైవిద్య చిత్రణ-ఒక పరిశీలన
 48.Influence of Brechtian Theory in Girish Karnad's Dramas
 49.Indian's New Education Policy 2020: An Analysis
 50.Themes and Techniques in James Joyce's Clay
 51.Various Themes and Techniques used in Light Out
 52.A Critical Examination of the Scientific Significance of Roopa Pai's 'The
- 52.A Critical Examination of the Scientific Significance of Roopa Pai's 'I Gita for Children' in the Context of Contemporary Living



Research Article

Faculty Name: G. Suresh Kumar Name of the Department: English



Theme of Environment in Margaret Atwood's MaddAddam Trilogy

G. Suresh Kumar

Of late, the main focus of a section of the writers worldwide is on sustained environmental destruction and its fatal effects. The writers tried to create awareness among the people about the need of the hour to keep ecological balance lest we face the dooms day. Eco-cnticism is an art of interpreting environment and the factors led to its destruction and the impending danger to the mankind. It is the study of the relationship between literature and the environment. It is a new trend in the twenty-first century English fiction and non-liction. Environmental degradation is one of the crucial problems that we face today. Senseless human interventions, modern industrial developments and technology, the green house gas emissions, depletion of water resources. deforestation, excessive use of pesticides, electronic wastes, melting of snow caps, raising of water levels of oceans. deforestation, radio nuclei and their emissions etc are some of the issues that result in the sterility of nature and it arises from man's indifference towards conservation of nature.

Margaret Atwood is an outstanding environmental fiction writer in Canada. She needs no introduction and has been well-known for her assessment of wilderness and ecological issues. The crux other fictional works primarily concerns environmental cataclysm owing to the expansion of science and technology and its ill effects. The modern mechanization of nature and its objectification us a commodity is the root cause of the precarious ecological situation. today. With respect to the probable ecological disastors that humanity may possibly face, the ecological threat has become the central discussion among the scientific as well as the Iterary circles, Among other literary critics and novelists, Margaret Alwood one of the most acknowledged environmentalists, deals with this issue in her thiogy. In Oryx and Crake (2003), The Year of the Flood (2009) and MaddAddam (2013) she creates a dystopic narrative that depicts the collapse of civilization, warning her readers about the impending peril if the callous attitude of the man towards nature continues. Against this background, Atwood makes a meticulous criticism of the abuse of nature and possible consequences of it.

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Faculty Name: Kezia Elizabeth Name of the Department: Microbiology



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A GEOMETRICAL APPROACH FOR CHARACTERIZATION OF SOIL CALCAREOUS IN SEMI-ARID REGION OF TELANGANA STATE, INDIA

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ABSTRACT

Soils containing a high amount of calcium carbonate are identifying as calcareous soils. This type of soil severely affects the plant's growth as they tend to be low in nutrient availability and organic matter. An extensive study was conducted to characterize the calcareousness in Zaheerabad Mandal, Telangana State, India. A total of 48 geo-referenced soil samples were collected in five villages and analyzed for soil texture, soil-water availability, hydro geomorphology, and free calcium carbonate. GIS-based soil characterization is done with Arc GIS - 10.3 software and verified with the ground truth data. The observations showed that 34.14 % of the study area is affected with 35-60% of soil calcareousness, which indicated high calcareousness, followed by slight soil calcareousness in 32.42 % of the study area, i.e., 15-35% of calcareousness and 31.54% of the study area is free from calcareousness. This characterization of soil calcareousness alarmed the inferior cultivation methods in the study area and alerting the farmers for better land management by avoiding high pH substances such as pesticides and synthetic fertilizers.

KEY WORDS: Soil Calcareousness, Soil texture, Soil - water availability, Hydro geomorphology, Calcium carbonate

INTRODUCTION

The quantity of calcium carbonate present in the soil indicates the calcareousness of the soil. Nowadays, calcareous soils covering almost 30% of the earth's surface, and the level of calcium carbonate in these areas varies widely from a few "%" to "95%" (Marsh, 2003; Silvestri *et al.*, 2020). A large amount of calcium carbonate in soils affects the various soil properties related to the plant's growth, such as nutrient availability, soil crusting, soil - water capacity, etc. (Song *et al.*, 2019). The desert, arid, and semi-arid countries mainly contain calcareous soils due to two reasons. The first is naturally available rich calcium like basalts, and the second reason is the frequent alteration of dry and wet periods. These

long dry seasons generally not favourable to deep leaching the solutions in soils. This type of soil usually has a pH above "7", and in some cases, pH may reach "8.5". If the soils contain sodium carbonates, then the pH may cross "9" also. CaCO, can concentrate into tough layers in some soils, termed caliche, which is impermeable to water and plant roots (Cross, 2017). The availability and quality of irrigation water in low rainfall regions lead to constraints in the agricultural sector and create several irrigation management problems. The water from all the sources naturally contains various inorganic salts. These salt substances from irrigation water enter into soil profile considerably to such high concentrations and then show their impacts in multiple forms. These may modify soil structure,

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ANTIBACTERIAL ACTIVITY ASSESSMENT OF EYELINER EXTRACTED FROM NATURAL SOURCES (CASTOR OIL & SANDALWOOD)

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ABSTRACT

Our nature is a valuable source of various valuable compounds, which can be used in treatment of some diseases and to enhance our beauty. Traditionally natural products extracted from plants were used to make many cosmetics, one such product is eyeliner (used in present study). The natural eyeliner was extracted from Castor oil, Sandalwood and Bronze metal by traditional method. The crude extract was dissolved in standard solvents like ethanol and its antibacterial activity of crude extract was evaluated against bacterial cultures of Staphylococcus, E.coli, Klebsiella. Simultaneously, the antibacterial activity of even the commercial eyeliner was evaluated against the bacterial cultures staphylococcus, E.coli, Klebsiella. The Inhibitory activity of natural eyeliner and commercial eyeliner were compared. The focus of present study lies in the investigation of antimicrobial activity of the naturally extracted crude eyeliner and commercial eyeliner. From the analysis it was found that crude extract of natural eveliner is more effective against the bacterial test Organisms. The staphylococcus species was found to be more susceptible among the bacterial cultures tested. The crude extract of natural eyeliner containing castor oil, Sandalwood and metal bronze was found to be antibacterial. The common eye infections are caused by Staphylococcus and it was found that our natural product is showing antibacterial activity against the organism Staphylococcus. The Zone of inhibition was evaluated and the crude extract was found to be more effective against Staphylococcus as compared to commercial eyeliner. The outcome of the present study reveals that the natural eyeliner is found to be more antibacterial than the commercial eyeliner and useful effects of natural products.

KEYWORDS: Natural evolution, Staphylococcus, Antibacterial activity, castor oil, sandalwood, bronze metal.



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INTRODUCTION

Nature is a valuable source of many plants that have medicinal value, which can be used for therapy and even to enhance the beauty. Traditionally, the natural products extracted from plants were used in preparation of eveliner, lipstick and many other cosmetic products. The use of eyeliner can be traced back to more than well assay. The assay media employed for agar well assay is Mueller-Hinton agar⁵.

Method

The castor oil around 100ml is filled into the bronze lamp and is lighted. A thick layer of sandalwood is applied on metal bronze plate, allowed to dry, and then inverted upon the lamp in such a way that there is a gap





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Synthesis of Phyto Based Metal Nanoparticles: A Green Approach

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Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

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ABSTRACT

Review Article

In recent years, changing material properties is gaining a significant research interest. Besides, applying the fundamentals of basic science to different applications is also more encouraged and approving the tundermentals of basic science to dimerent applications is also more encouraged and on-demand. In this view, material science has become a common interest in various fields, starting from chemistry, physics, biology, and engineering. The common platform for all these sectors is nanoscience and nanotechnology. The main motto is changing material properties while converting it from bulk to its nano size level. The changes in properties like optical, mechanical, and others make the synthesized nanomaterials for implementation in various applications for humankind. Besides the success of this idea, the toxicity of the materials used during the synthesis becomes a question to researchers, as it hinders the sustainable development concept. If not total, a certain decrement in the toxic material utilization gives a pavement towards green technology. In this view, various researchers adopted plant materials as sources for synthesizing the nanomaterial in this decade. The present review highlights the utilization of coinage metal (Ag, Au, and Cu) salt to synthesize nanoparticles by using plant sources like leaf, bark and their characterization study along with their applications.

Keywords: Nano particles; green chemistry; coinage metals; plant extracts; nano technology.

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A Study on Impact of Covid-19 Pandemic on the Indian Economy N. Deepa, M. Ramachandran Department of Economics. TSWRDCW, Warangal East, India REST Labs, Potbapuram, Kaveripatinam, Krishnagiri e35112, India. drdeeparanmohan@gmail.com.ramachaadran.marickam@restlabs.in

Introduction

Introduction
The covid-19, pandemic impacted the world in severe meaner, whether we talk about health, economies or nation growth.
During covid-19 crisis many countries implemented long lockdown which affect their economies, supply chain, turnover and
what not, in every segment. Transportation, communication etc. all get adversely affected. And various other concerns were
raised during this covid-19 time. INDLA could also see the severe issues if will notige trepaned for this, many policites have
to be framed, many works have to be done, by government if they want to minimize the impact on economies, health and
such issues. Covid-19 have posed serious issues in front to India, it is very difficult to face the covid-19 outbreak as being
very populated country. Having concern over this issue central and state took major steps but unfortunately it turns out to be
discussion.

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Empowerment of Women through Financial Inclusion under the Self-Help Group Programme in Telangana

- Neeli Deepa*

Abstract

Financial resources, if effectively delivered to women in rural areas, can help them to make a meaningful improvement in their economic and social condition. and also reduce gender inequality. The membership in self-help groups have helped women gain more individual, entrepreneurial and social empowerment, and also empowerment as decision makers in the family, though there is still some space to improve it further.

A country like India where the majority of the population is from the rural areas, the comprehensive financial inclusion of the population, especially of the poor and disadvantaged segments of the society, is considered a pre-condition for inclusive growth. Over the years, various institutional arrangements and financial inclusion models have been adopted such as agricultural credit cooperatives, bank nationalisation, regional rural banks, etc., which form important segments of rural financing system. Even though the institutional share in the total rural credit has increased over the years, there is still a large credit gap due to the formal processes, procedures and systems of the financial institutions. In addition, some segments of the population are even now deprived quite unaware about the advantages of the formal rural credit system. Studies do suggest that the rural poor are largely continuing to access finance from the local informal sources to carry out economic activities. Though selfhelp groups (SHGs) do provide a comprehensive pathway for financial inclusion, specially of women, there is a dire need to provide SHGs a smoother route to microcredit. In view of the importance of inclusion of women in various economic activities, this study was undertaken amongst women who had been members of SHGs in Adilabad, Mahabubnagar and Ranga Reddy districts of Telangana to understand how they perceived being empowered on various parameters. It finds that institutional training has helped women in enhancing their existing skills, and a majority of women have attained individual empowerment after joining the programme.

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Key Words: Microfinance, Women Empowerment, Self-Help Groups.



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Dynamic Support Range based Rare Pattern Mining over Data Streams

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Abstract-Rare itemset mining is a relatively recent topic of study in data mining. In certain application domains, such as online banking transaction analysis, sensor data analysis, and stock market analysis, rare patterns are patterns with low support and high confidence that are extremely interesting when compared to frequent patterns. Numerous applications generate large amounts of continuous data streams. We require efficient algorithms capable of processing data streams in order to analyze them and find unique patterns. The strategies developed for static databases cannot be used to data streams. As a result, we require algorithms created expressly for data stream processing in order to extract critical unique patterns. Rare pattern mining is still in its infancy, with only a few ways available. To address this is developed the Dynamic Support Range-based Hybrid-Eclat Algorithm (DSRHEA), an Eclatbased technique for mining unique patterns from a data stream using bit-set vertical mining with two item-based optimizations. The detected patterns are kept in a prefix-based rare pattern tree that uses double hashing to maintain the unusual pattern in the data stream. Testing showed that the proposed method did well in terms of how long it took to run, how many rare patterns it made and accuracy.

Keywords—Depth first search; Hybrid-Eclat algorithm; SRPtree; itemset; frequent-pattern support; rare-pattern support; pivot; data stream; rare itemset; infrequent itemset

I. INTRODUCTION

Information systems play a vital role in identifying trends, making decisions, and adapting to the emerging changes in the market. In the current global scenario, wherein the organisations have to be sharp in its analysis of trends, there is a need for entities to be adaptable to new and dynamic solutions that can provide insights in effective ways. Utility mining and pattern detection solutions play a big role in the FMCG market [1].

Many of the earlier studies focusing on the application of business intelligence solutions in the pattern mining or utility mining space have discussed leveraging the data from information systems for analysis. However, there are very few systems among the explored models that exhibit the scope for dynamic analysis models. It is imperative that the current condition in the competitive scenario requires entities to focus on conditions wherein dynamic selection of data is targeted for informed decisions. In an illustrative scenario of a supermarket environment, the frequent mining set possibilities keep emerging over time and could lead to a paradigm shift in how each pattern or itemset billing happens periodically. Thus, there is a need for consistent follow-up of emerging trends and periodic analysis that shall help in covering the process effectively. In this manuscript, the focus is on developing a linear and systematic approach for dynamic analysis of the pattern set designs, which shall help in accomplishing the requisite tasks. The goal of this paper is to make a dynamic model of how items are classified into different labels based on the patterns that appear in the data systems over a certain amount of time.

To speed up the process of discovering new association rules, it is crucial to identify common patterns in a dataset. Because association rules presume that every record in the database has the same occurrence frequency, they can only utilize one min-SUP per record. There are several drawbacks of mining frequent itemsets (as well as frequent patterns) with a simple min-SUP constraint in a non-uniform database. Finding patterns involving uncommon items will be impossible if min-SUP is set very high. In order to recognize patterns that include both common and unique things, we need to reduce min-SUP to a lower value. A combinatorial explosion may happen because these common objects are linked together in all possible ways. This could lead to too many patterns depending on the needs of the individual and the application.

The model proposed in this study is adapted on the basis of pivot, support, for the itemset conditions emerging in the domain. In the further sections of this report, the emphasis is on related work review, wherein key studies in the domain are explored to understand the critical success factors and constraints to consider in developing a comprehensive solution. Followed by, in the further section, the methods adapted for the model are discussed, that can help in accomplishing the proposed model. Experimental study is discussed in Section 4 and conclusion discussed in Section 5.

A. Motivation

Because rare situations represent considerable obstacles for data mining methods [2], they deserve special attention. The fundamental mining difficulties, on the other hand, have not yet been adequately investigated. Indeed, much of the literature in this area is devoted to adapting the Apriori [3]-based generic itemset mining framework to various exemptions of the frequent-itemset as well as frequent association ideas [4].Whereas these methods often cover a considerable amount of the search-space for uncommon itemsets and relationships, they are nevertheless insufficient because several rareassociations are ignored owing to excessive computational

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Rare Pattern Mining from Data Stream Using Hash-Based Search and Vertical Mining



Sunitha Vanamala, L. Padma Sree, and S. Durga Bhavani

Abstract Rare itemset mining is the emerging research domain in data mining. Patterns with low support and high confidence are referred to as Rare Patterns, which are very interesting compared to frequent Patterns in certain application domains like analysis of network logs, online customer purchase behavior, online banking transaction analysis, sensor data analysis, stock market data analysis. Many applications generate large volumes of the continuous data streams. To analyze such data streams and to identify rare patterns, we need efficient algorithms that can process data streams. Many research articles on rare pattern mining are available for static databases. However, it is not possible to apply the algorithms designed for static databases to data streams. Hence, we need algorithms that are specifically designed for data stream processing, to mine important rare patterns. Rare pattern mining from the data stream is in the budding stage and only a few algorithms are available. To address this, we have proposed algorithm HEclat-RPStream, an Eclat based method to mine rare patterns from a data stream using a vertical mining with bitsets. The discovered patterns are maintained in a prefix-based rare pattern tree, it uses double hashing to maintain a rare pattern in the data stream. The algorithm also uses the Breadth First Search (BFS) and Depth First Search (DFS) to discover interesting large itemsets. To handle data streams, we have used a time sensitive sliding window approach which captures most recent patterns. The pruning technique based on two items is used to optimize the performance. The experimental results of the proposed method demonstrated good performance concerning execution time and the total number of rare patterns generated.

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DRIP IRRIGATION IS A SUSTAINABLE METHOD FOR GROWING VEGETABLES IN TELANGANA

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Abstract

The country's primary needs for agriculture and economic development are land and water. By 2025, the International Water Management Institute (IWMI) predicts that one-third of the world's population would experience complete water scarcity. More than 80% of the nation's usable water resources are used by agriculture. The goal of the Micro Irrigation Scheme (MI), which focuses on drip irrigation, is to cover more ground with effective irrigation techniques. By efficiently supplying irrigation water to the root zone of plants using drip irrigation, traditional losses like deep percolation, runoff, and soil erosion are reduced. Additionally, it enables the use of irrigation water, fertilisers, insecticides, and other water-soluble substances, leading to larger yields and better-quality produce. The drip irrigation system is seen to be the answer to many issues in dry land agriculture. Appropriate drip irrigation management is influenced by a variety of variables, such as system design, soil properties, crop and growth stage, environmental conditions, etc. These influences can be taken into account when creating an effective scheduling system that determines the quantity and timing of drip irrigation. In order to achieve high water and nutrient use efficiency while improving crop productivity, it provides the optimal vehicle for delivering nutrients in a timely and effective manner. Commercial vegetable production also requires intense management to achieve these goals.

Keywords

Water resources, Water scarcity, Drip irrigation, Vegetable production.

1. Introduction : The wise use of the available water resources is crucial to the overall expansion of the agricultural sector and the anticipated GDP growth rate. Therefore, central and state governments and numerous



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Second Hankel determinant with Fekete-Szegö parameter for some subclasses of bi-univalent functions using a symmetric q-derivative operator

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Abstract

In this paper we have discussed about second Hankel determinant of Ma-Minda starlike biunivalent and Ma-Minda convex bi-univalent functions in the open unit disc Δ subordinate to a starlike univalent function whose range is symmetric with respect to the real axis involving the Fekete-Szegő parameter λ .

2010 Mathematics Subject Classification. 30C45. 30C50, 30C80. Keywords. bi-univalent functions, subordination, second Hankel determinant, Toeplitz determinant, Fekete-Szegö parameter.

1 Introduction

Let A be the class of all analytic functions f of the form

$$f(z) = z + \sum_{n=2}^{\infty} a_n z^n;$$
 (1.1)

in the open unit disc $\Delta = \{z : z \in \mathbb{C} \text{ and } | z | < 1\}.$

Let S be the subclass of A consisting functions of the form (1.1) which are also univalent in Δ . For any two functions f and g analytic in Δ , we say that the function f is subordinate to the function g in Δ and it can be written as $f \prec g$, if there exists a Schwartz function ω , which is analytic in Δ with w(0) = 0, $|w(z)| < 1(z \in \Delta)$ such that f(z) = g(w(z)). In view of Koebe $\frac{1}{4}$ theorem, every function $f \in \Delta$ has an inverse f^{-1} , defined by

$$f^{-1}(f(z)) = z, (z \in \Delta), f(f^{-1}(w)) = w (|w| < r_0(f); r_0(f) \ge \frac{1}{4});$$
(1.2)

In fact the inverse function is given by

$$f^{-1}(w) = w - a_2 w^2 + (2a_2^2 - a_3)w^3 - (5a_2^3 - 5a_2a_3 + a_4)w^4 + \dots$$
(1.3)

A function $f \in A$ is said to be a bi-univalent function in Δ if both f and f^{-1} are univalent in Δ . Lewin [17] introduced the class Σ of bi-univalent functions in 1967 and showed that $|a_2| \leq 1$ for every $f \in \Sigma$. Subsequently, Brannann and Clunie [4] conjectured that $|a_2| \leq \sqrt{2}$ for bi-starlike functions and $|a_2| \leq 1$ for bi-convex functions. Only last estimate is sharp and equality occurs only

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Fekete-Szegö inequality of bi-starlike and bi-convex functions of order b associated with symmetric q-derivative in conic domains

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Abstract. In this paper, two new subclasses of bi-univalent functions related to conic domains are defined by making use of symmetric q-differential operator. The initial bounds for Fekete-Szegö inequality for the functions f in these classes are estimated.

Mathematics Subject Classification (2010): 30C45, 30C50.

Keywords: Analytic functions, bi-univalent functions, bi-starlike functions, biconvex functions, conic domain, Fekete-Szegö inequality, q-differential operator, univalent functions.

1. Introduction

Let \mathcal{A} denotes the set of all functions which are analytic in the unit disc

$$\Delta = \{ z \in \mathbb{C} : |z| < 1 \}$$

with Taylor's series expansion of the form

$$f(z) = z + \sum_{n=2}^{\infty} a_n z^n, \qquad (1.1)$$

which are normalized by f(0) = 0, f'(0) = 1. The subclass of \mathscr{A} consisting of all univalent functions is denoted by \mathscr{S} . A function $f \in \mathscr{A}$ is said to be a starlike function if

$$\Re\left(\frac{zf'(z)}{f(z)}\right) > 0 \qquad (z \in \Delta).$$

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Third Hankel Determinant for A Class of Functions with Respect to Symmetric Points Associated With Exponential Function

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Abstract: The purpose of the present work is to determine the possible upper bound of third order Hankel determinantforthefunctionsstarlikeandconvex with respecttosymmetric points associated with exponential functions.

Key–Words: Analytic function, Univalent function, Subordination, Fekete-Szegö inequality, Hankel determinant, Symmetricpoints.

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1 Introduction

The class of all analytic functions f with f(0) = 0and f'(0) = 1 in the unit disc $E = \{z \in \mathbb{C} : |z| < 1\}$ is denoted by A and has the Taylor's series expansion of the form given by

$$f(z) = z + a_2 z^2 + a_3 z^3 + \cdots$$
 (1)

The class of functions that are univalent and analytic in E is denoted by S. The family of functions that are analytic in E and maps E onto the right half plane is denoted by P and functions of this class are of the form

$$p(z) = 1 + p_1 z + p_2 z^2 + p_3 z^3 + \cdots$$
 (2)

For two analytic functions g and h in E, g is subordinate to h, denoted as $g \prec h$, if there is an analytic function w in E with w(0) = 0 and |w(z)| < 1 such that g(z) = h(w(z)), for all $z \in E$. If h is univalent in E, the subordination is same as g(0) = h(0) and $g(E) \subseteq h(E)$. Pommerenke ([35], [36]) defined the Hankel determinant $H_k(n)$, for positive integers k, n for the functions in \mathbb{S} of the form (1), as below:

$$H_k(n) = \begin{vmatrix} a_n & a_{n+1} & a_{n+2} & \dots & a_{n+k-1} \\ a_{n+1} & a_{n+2} & a_{n+3} & \dots & a_{n+k} \\ a_{n+2} & a_{n+3} & a_{n+4} & \dots & a_{n+k+1} \\ \dots & \dots & \dots & \dots & \dots \\ a_{n+k-1} & a_{n+k} & a_{n+k+1} & \dots & a_{n+2k-2} \\ a_{n+k-1} & a_{n+k} & a_{n+k+1} & \dots & a_{n+2k-2} \\ (3)$$

For fixed positive integers k and n the growth of $H_k(n)$ as $n \rightarrow \infty$ has been determined by Noor [30], with bounded boundary. The Hankel determinant for exponential polynomials was studied by

Ehrenborg [9]. The Hankel determinant of different orders is obtained for different values of k, n. For instance, when k = 2 and n = 1, the determinant

$$H_2(1) = \begin{vmatrix} a_1 & a_2 \\ a_2 & a_3 \end{vmatrix}$$

= $|a_3 - a_2^2|, (a_1 = 1)$ (4)

This determinant is the particular case of estimating the greatest value of the functional $|a_3 - \mu a_2^2|$ for functions in S, where μ is real or complex. This is known as the Fekete-Szegö [10] problem. Many researchers like Ali et al. ([1],[2]), Cho and Owa ([6],[7]),Koegh and Merkes [16], Lewandowski et al.[21], Ma and Minda [24], Magesh et al. [25], Murugusundaramurthy et al. [28], Ram Reddy and Sharma [39], Ravichandran et al. [40],Shanmugam et al. [41], Ram Reddy et al.[42], Haripriya and Sharma [12], Srivastava H.M. et al.[43], Tuneski and Darus [44] have studied Fekete-Szegö inequality for various subclasses of univalent analytic functions.

Now for k = 2, n = 2, it can be obtained that

$$H_2(2) = \begin{vmatrix} a_2 & a_3 \\ a_3 & a_4 \end{vmatrix}$$

= $|a_2a_4 - a_3^2|$ (5)

The maximum value of $H_2(2)$ has been investigated by several authors. For instance the reader can see the work initiated by Hayman [13], Noonan and Thomas [29], Janteng et al. ([14],[15]), Bansal[5], Lee et al. [20], Liu et al. [23], Raina et al. [38], Ohran et al. [31], Laxmi and Sharma [18], Råducanu and Zaprawa [37].Very recently, Zaprawa[47] shown a new direction in estimating the upper bound of the Hankel determinant for k = 2, n = 3, i.e., $H_2(3)$ for various



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SECOND HANKEL DETERMINANTS FOR SOME MA-MINDA SUBCLASSES OF BI-UNIVALENT FUNCTIONS

K. RAJYA LAXMI, R. BHARAVI SHARMA, AND K. GANESH

ABSTRACT. In this paper, we have investigated second Hankel determinants for some subclasses of Ma-Minda bi-univalent functions in the open unit disc Δ and these results are generalization of results in [7] and [9].

2010 Mathematics Subject Classification. 30C45, 30C50, 30C80.

KEYWORDS AND PHRASES. Analytic functions; Univalent functions; Bi-univalent functions; Second Hankel determinants; Subordination.

1. INTRODUCTION

Let \mathcal{A} denote the class of all analytic functions f in the open unit disc $\Delta = \{z \in \mathbb{C} : |z| < 1\}$ and normalized by the conditions f(0) = 0, f'(0) = 1which are of the form

(1)
$$f(z) = z + \sum_{n=2}^{\infty} a_n z^n$$

and S be the subclass of \mathcal{A} consisting of all univalent functions. Let \mathcal{P} be the family of analytic functions p(z) in Δ such that p(0) = 1 and $\operatorname{Re} p(z) > 0(z \in \Delta)$. According to Koebe one-quarter theorem, every function $f \in S$ has an inverse f^{-1} and f^{-1} need not be defined in the entire unit disc, satisfying

$$f^{-1}(f(z)) = z, (z \in \Delta), f(f^{-1}(w)) = w, (|w| < \frac{1}{4}).$$

In fact, the inverse function is given by

$$f^{-1}(w) = w - a_2 w^2 + (2a_2^2 - a_3)w^3 - (5a_2^3 - 5a_2a_3 + a_4)w^4 + \dots$$

For any two functions f and g analytic in Δ , we say that the function f is subordinate to g in Δ and we write it as $f(z) \prec g(z)$, if there exists a Schwarz function w, in Δ such that f(z) = g(w(z)).

The well known relation between the function in the class \mathcal{P} and the Schwarz function is given in [14] and is as follows.

$$p\in P \Longleftrightarrow p = \frac{1+\omega}{1-\omega}.$$

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Second Hankel Determinants and Fekete-Szegö Inequalities for Some Sub-Classes of Bi-Univalent Functions with Respect to Symmetric and Conjugate Points Related to a Shell Shaped Region

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Abstract. In this paper, we have investigated second Hankel determinants and Fekete-Szegö inequalities for some subclasses of Bi-univalent functions with respect to symmetric and Conjugate points which are subordinate to a shell shaped region in the open unit disc Δ .

Key Words: Analytic functions, univalent functions, Bi-univalent functions, second Hankel determinants, Fekete-Szegő inequalities, symmetric points, conjugate points.

AMS Subject Classifications: 30C45, 30C50, 30C80

1 Introduction

Let A be the class of all functions of the form

$$f(z) = z + \sum_{k=2}^{\infty} a_k z^k,$$
 (1.1)

which are analytic in the open unit disc $\Delta = \{z : |z| < 1\}$. Let *S* be the class of all functions in *A* which are univalent in Δ .

Let P denote the family of functions p(z) which are analytic in Δ such that p(0) = 1, and $\Re p(z) > 0$ ($z \in \Delta$) of the form $P(z) = 1 + \sum_{n=1}^{\infty} c_n z^n$.

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5	Fekete-Szegö inequalities for some subclasses of bi-univalent
6	functions through quasi-subordination
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19	In this paper, we have investigated Fekete-Szegő problems and coefficient estimates for
20	some subclasses of bi-univalent functions defined in terms of quasi-subordination. These
21	inequalities result in the bounds of the third coefficient in Maclaurin's series expansion
22	in the unit disc.
23	Keywords: Analytic functions; univalent functions; bi-univalent functions; quasi-
24	subordination; Fekete-Szegő inequalities.
25	AMS Subject Classification: 30C45, 30C50, 30C80
26	1. Introduction
27	Let A be the class of all functions of the form
	$f(z) = z + \sum_{k=2}^{\infty} a_k z^k \tag{1.1}$
28	which are analytic in the open unit disc $\Delta = \{z : z < 1\}$. Let S be the class of all
29	functions in A which are univalent in Δ .
30	Let P denote the family of functions $n(z)$ which are analytic in A such that

- Let P denote the family of functions p(z) which are analytic in Δ such that p(0) = 1, and $\Re p(z) > 0 (z \in \Delta)$ of the form $P(z) = 1 + \sum_{n=1}^{\infty} c_n z^n$. In view of Koebe one-quarter theorem, every function $f \in S$ has an inverse f^{-1} defined in 30 31
- 32

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Upper Bound of Second Hankel Determinants for Certain Subclasses of Bi-univalent Functions Using Subordination

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Abstract. In this paper, we have investigated second Hankel determinants for some subclasses of Ma-Minda bi-univalent functions in the open unit disc Δ . These results also give an upper bound for second Hankel determinant of Ma-Minda bi-starlike and bi-convex functions.

1. Introduction

 \mathcal{A} denotes the set of all functions which are analytic in the unit disc $\Delta = \{z \in \mathbb{C} : |z| < 1\}$ having a series expansion of the form given by

$$f(z) = z + \sum_{n=2}^{\infty} a_n z^n.$$
⁽¹⁾

The subclass of \mathcal{A} consisting of all univalent functions is denoted by S. The family of all analytic functions p(z) with positive real part and p(0) = 1 is denoted by P and p(z) is of the form

$$p(z) = 1 + \sum_{n=1}^{\infty} c_n z^n.$$
 (2)

Let $f, g \in \mathcal{A}$ then, we say that the function f is subordinate to the function g in Δ , if there exists a Schwartz function ω , which is analytic in Δ with $w(0) = 0, |w(z)| < 1(z \in \Delta)$ such that f(z) = g(w(z)) and it is represented with $f(z) \prec g(z)$. Every analytic and univalent function in Δ has an inverse f^{-1} , according to the Koebe $\frac{1}{4}$ theorem it is defined as

$$f^{-1}(f(z)) = z, (z \in \Delta), f(f^{-1}(w)) = w(|w| < r_0(f); r_0(f) \ge \frac{1}{4}).$$
(3)

Also the function f^{-1} can be written as

$$f^{-1}(w) = w - a_2 w^2 + (2a_2^2 - a_3)w^3 - (5a_2^3 - 5a_2a_3 + a_4)w^4 + \dots$$
(4)

If a function f and its inverse f^{-1} , are univalent in Δ then f is said to be bi-univalent in Δ . Σ denotes the class of all such functions. The functions $log(\frac{1+z}{1-z})$, $\frac{z}{1-z}$, -log(1-z) are members



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SOCIO-ECONOMIC CONDITIONS OF TRIBAL COMMUNITIES IN TELANGANA

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Abstract

Tribes are one of a variety of groups of Native Americans. They are mostly left out as they have been considered as the lowest class of Indian society since ancient times. Tribals continue to be deprived due to various factors such as geographical and cultural isolation, lack of adequate health facilities, inability to meet basic needs, lack of control over resources and property, lack of education and skills, malnutrition, homelessness, poor access to water Huh, and sanitation, vulnerability to trauma, violence and crime, lack of access to adequate infrastructure and technology, and lack of political freedom and expression. All these challenges can make your life difficult. In view of these problems, the government tries to help the tribes through various welfare programs. This article attempts to analyze the socio-economic status of tribal communities, the government's plan for the betterment of tribal communities presented by the government of Telangana.

Key Words: Telangana, Tribes, Banjara, Nalgonda.

Introduction

India is a country where people from different cultures, religions, traditions, languages, castes and creeds live. In India too, each state has its own culture and tradition. Among them, indigenous people are among the groups that should be given special attention. The presence of these tribes gives India a diverse taste and a true treasure. The indigenous people of India are also known as "Adivasi", which literally means "Adivasi" or "native to a particular region". The main population of the tribes is located in Chhattisgarh, Orissa, Jharkhand, Madhya Pradesh, northeastern states and Andaman and Nicobar Islands.

Social development paves the way for economic development. Tribes still face difficulties in their socioeconomic development due to various factors such as geographical and cultural isolation, lack of adequate health facilities, inability to meet basic needs, lack of control over resources and property, lack of education and skills, malnutrition have to face Homeless, poor access to water and sanitation, vulnerable to crisis, violence and crime, lack of access to adequate infrastructure and technology, and lack of political freedom and expression. The social sector, which includes sub-sectors such as education, health and medical care, housing and water supply, is of great importance for economic development.

The criteria to be followed by the employed tribe are: For the uniqueness of a community

- · Evidence of primitive features,
- Specific culture,
- Geographical Isolation,
- · sneaky contact with the community in general,
- Remains.

This criterion is not detailed in the Constitution, but it is well established. This takes into account the definitions of the 1931 census; Report of the First Backward Classes Commission (Kalckar), 1955;

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CHANGING OF SOCIO-ECONOMIC AND CULTURAL LIFE OF LAMBADAS WITH SPECIAL REFERENCE TO NALGONDA DISTRICT (1956-2014 A.D.)

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Abstract

Lambada tribe is also known as the oldest Banjara, Boipari, Sugli or Sukli, Vanjari, Brinjal, Labani, Labana, Lambani etc. in different parts of India. The Deccan Banjara tribe claims to be the descendants of two brothers, Mota and Mola, who looked after Lord Krishna's cattle. However, other historians disagree with this claim, believing that they are immigrants from Persia or European countries, or Roma gypsies. Another source claims that they are from the Middle East, North Africa and Russia. He was given the name Banjara during the colonial period. They were also known as Ghor Samagam (name of the language). However, Lambada tribe is mainly seen in the districts of Mahbubnagar, Warangal, Khammam, Adilabad, Anantapur, Cuddapah and Krishna and these regions are called Telangana. As per census there are 5.5 million 20 Lambada tribes in the state of Andhra Pradesh.

Introduction

The United Nations Report on the Status of the World's Indigenous Peoples estimates that there are approximately 370 million indigenous peoples, which make up 6% of the world's population. According to ILO Convention No. 169, Indigenous and Aboriginal peoples are those whose social, cultural and economic status distinguishes them from other parts of the national community and whose status is wholly or in part due to their own customs, traditions, laws is determined by. Laws become rules". However, around the world, they suffer from discrimination, exclusion, extreme poverty and conflict. Despite being 5% of the world's population, they are 15% of the world's poor and the world's poorest. About a third of the 900 million are extremely poor.

Indian tribal economy

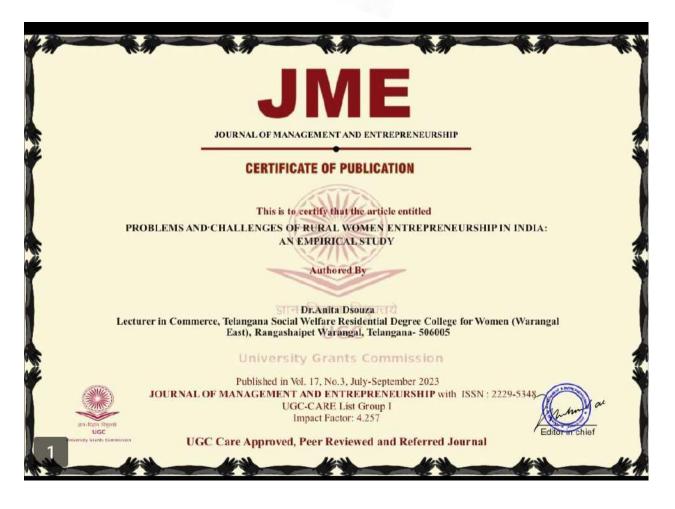
India has the world's largest tribal population of 84.3 million, accounting for 23% of the world's indigenous population. Article 342 of the Indian Constitution designates 700 ethnic groups as Scheduled Tribes on the basis of the criteria of primitive characteristics, distinctive culture, geographical isolation, cowardly nature and backwardness. Scheduled Tribes (STs) are known as "Adivasi", which literally means "early settlers". The term "Scheduled Tribe" has not been defined, but is an administrative term used for the purpose of "administrating" certain constitutional statutes. Privileges, protections and benefits for a certain group of people historically considered disadvantaged and backward.

Tribes sit on a mountain of natural resources which they cannot use effectively due to various socio economic and political constraints. Although the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act 2006, a landmark piece of legislation enacted by the Government of India, recognizes property rights, rights of use, assistance and development and management of tribal forests, Its implementation was late and "beneficially rare among indigenous peoples". There are strict laws restricting the transfer of tribal land to non-tribal people, so the land markets are underdeveloped and hence the cost of land acquisition in tribal areas is extremely low, especially through mining there is a tendency to acquire more land than necessary encourages company. Tribal resources have become what Peruvian economist Hernando de Soto calls "dead



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A STUDY ON THE EFFECT OF EMPLOYEE DIVERSITY ON ORGANIZATIONAL PERFORMANCE IN IT SECTORS

A STUDY ON THE EFFECT OF EMPLOYEE DIVERSITY ON ORGANIZATIONAL PERFORMANCE IN IT SECTORS

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ABSTRACT

This research explores the complex relationship that exists between organizational performance and workforce diversity in the ever-changing Information Technology (IT) sectors. Businesses are accepting diverse workforces in increasing numbers, thus it's critical to understand how this affects overall organizational effectiveness. This study uses a mixed-methods approach to include both qualitative and quantitative information. Various elements of employee diversity are examined, including aspects of gender, ethnicity, age, cultural origins, and skill sets within the IT workforce, based on an extensive assessment of the literature. The moderate impact of diversity on organizational performance indicators is supported by empirical data drawn from a representative set of IT sectors. IT environments, multiple viewpoints may encourage creativity and problem-solving skills. This is shown by quantitative analyses that show a favorable association between innovative outcomes and diverse teams. Qualitative research also highlights the importance of supportive work environments and competent leadership in optimizing the potential advantages of diversity, and it highlights the role that inclusive organizational cultures play. Considering these encouraging results, there are still issues with diversity management in the IT sector, such as unconscious prejudices, communication obstacles, and possible conflicts. To fully realize the potential of diverse teams, these challenges call for focused interventions and inclusive behaviors. With regard to the relationship between staff diversity and organizational performance, particularly in the IT industry, this study adds insightful new information to the continuing conversation. HR is intended to be guided by the practical ramifications of this study.

Key words: IT Companies, It Sector, workforce, organizational, performance, diversity and environments.

INTRODUCTION:

The Information Technology (IT) industry is essential to innovation, technical advancement, and organizational future-shaping in today's dynamic global economic environment. Organizations in the IT sector are faced with the challenge of managing a diverse workforce, which consists of individuals with varying backgrounds, experiences, and opinions, as the business grows.

Diversity in the workforce, which includes things like gender, age, ethnicity, educational background, and cultural variations, is becoming more and more important in determining an organization's success. Businesses that welcome diversity frequently reap a variety of advantages, from increased innovation and creativity to better problem-solving skills. Nevertheless, a thorough investigation and study of the specific effect of personnel diversity on organizational success in the IT sector is still necessary. In the context of IT organizations, this study aims to explore the complex relationship between personnel diversity and organizational effectiveness. By looking at how different aspects of diversity, like diversity in cognition and demographics, affect key performance indicators.

The basis for this study stems from the realisation that innovation and problem-solving is critical components of the IT sector, and that a diverse workforce can have a substantial impact on both of these competencies. In order to establish inclusive work environments that foster success in a constantly competitive marketplace, executives, HR experts, and legislators must have a thorough understanding of

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NIU International Journal of Human Rights A UGC CARE Listed Journal ISSN: 2394 - 0298 CERTIFICATE OF PUBLICATION This is to certify that Dr.Anita Dsouza Lecturer in Commerce, Telangana Social Welfare Residential Degree College for Women (Warangal East), Rangashaipet Warangal, Telangana- 506005 for the paper entitled A STUDY ON THE EFFECT OF EMPLOYEE DIVERSITY ON ORGANIZATIONAL PERFORMANCE IN IT SECTORS Not . 11 (I)-January 2024 in **NIU International Journal of Human Rights UGC Care Group 1** ISSN: 2394-0298 Impact Factor: 4.7 Editor





JOURNAL OF MANAGEMENT AND ENTREPRENEURSHIP ISSN : 2229-5348 UGC Care Group 1 Journal PROBLEMS AND CHALLENGES OF RURAL WOMEN ENTREPRENEURSHIP IN INDIA: AN EMPIRICAL STUDY

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Abstract

In today's globalised world, a country's economic progress is entirely dependent on the involvement of women in its rural development. However, in a man-dominated country like India, where a large portion of the population lives in rural areas, it is extremely difficult for a woman to consider starting her own business. Women's entrepreneurship is a key notion for the growth of rural communities. For rural women, rural entrepreneurship is a key notion for the growth of rural communities. For rural women, rural entrepreneurship can open up new economic opportunities, support general growth, and help people escape poverty. The goal of this research study is to analyse the problems and challenges more about the factors that encourage women's rural entrepreneurship in India. It also focuses on the position of women in this sector. The outcomes of this paper expose that lack of balance between family and career obligations of women, lack of direct ownership of the property, poor degree of financial freedom for rural women, negligence by financial institutions, lack of self-confidence, lack of confident schedule of life, lack of education, no awareness about capacities, low risk bearing ability, lack of self-confidence, rural women and women so awareness about capacities, low risk bearing ability, lack of self-confidence, rural women rural women rural women soft Rural Women Entrepreneurship development in India. **Keywords:** Women Entrepreneurship, Rural Development, Employment and Social Factors,.

I. Introduction

The ownership structure in the industrial, agricultural, trade, and commerce sectors has altered during the past 10 years, which is seen from looking at the Indian economy. Entrepreneurship is crucial for improving the economic situation of rural areas as well as creating employment opportunities for rural populations. It also offers self-employment for people who launch their own businesses. The vast majority of these were established by men. While many Indian women aspire to be entrepreneurs, it is generally more difficult for them to succeed. In reality, India has been identified as one of the countries where women company entrepreneurs face fewer favourable conditions, pronounced cultural prejudices, and a lack of business resources such as finance, capital, training, and development. Women are now interested in starting their own businesses in both rural and urban areas in order to fight poverty, produce Vol. 17, No.3, July-September 2023 170

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JOURNAL OF MANAGEMENT AND ENTREPRENEURSHIP ISSN : 2229-5348

UGC Care Group 1 Journal

family income, and improve their standard of living. Women are participating in agriculture, business, and trade without regard for societal or other constraints. However, rural women in India face numerous social and cultural constraints. As a result, women's participation in entrepreneurial activities contributes less to rural India's social and economic prosperity. Since 2008, the United Nations has observed the 15th of October as International Rural Women's Day to honour them. Rural entrepreneurs are those who engage in entrepreneurial activity by developing industries and commercial units in rural areas using agricultural resources. Women entrepreneurs and their increasing presence in India have significantly influenced the social and economic demographics of the country. The participation of women in the



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INVESTORS' LEVEL OF SATISFACTION WITH ETFS, BENEFITS, AND ATTITUDE TOWARD INVESTING IN ETFS

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Abstract

Gold Exchange Fund is a quick developing product to invest in Gold. Exchange Traded Funds (ETFs) has very positive significance as foreign exchange earner and safety and avoiding inflation in an economy (Wang et al., 2010). Investors considered safety, high returns, liquidity and capital appreciation in the time of investment. Finance is required for all development works. Financial leverage plays a significant role in the area of investment. The power of leveraging can be seen with long investments. The investment in the long term brings good result. Retail investment has remained as a strong growth driver. The investment styles of investors is subjected to rapid changes. A number of financial institutions are providing financial assistance and there is a lot of alternatives available to the retail investors depending upon risk, safety, regular income etc. The demand of investors i.e., returns and risks have been considered by the financial analysts and innumerable innovative instruments have surfaced to meet the demands of retail investors (Sailaja et al., 2018). Indian ETF industry is growing at a rate of 28% CAGR in between 2007 from 6 to 66 in 2018. AUMs grew 10X i.e., maximised and expanded results 10 times over in the previous 3 years from Rs. 8900 crores to 89500 crores as of October 2018. Further, the GOI gave impetus to the growth of ETFs when it raised capital through ETFs (Aruna Polisetty, et al., 2019). ETFs differ from mutual funds and they can be traded throughout the working day. The Hyderabad retailers are showing their likeliness towards ETFs as they are more safety less risk and better return yielding.

Key words: Exchange Traded Funds, Investors,



AN EMPIRICAL INVESTIGATION OF HERDING BEHAVIOUR IN INDIAN BOMBAY STOCK EXCHANGE

Section A-Research paper

AN EMPIRICAL INVESTIGATION OF HERDING BEHAVIOUR IN INDIAN BOMBAY STOCK EXCHANGE



Dr. Dhadurya Naik M^{1°}, Dr. Suresh Talamala², Dr. S. Venkata Ramana³, Dr.K.Kiran Kumar Varma⁴, Dr. Anita Dsouza⁵

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Abstract

Drawing upon prior research on the Indian stock market, they examine whether the Bombay Stock Exchange (BSE) exhibits herding behaviour, and whether herding behaviour differs when the market recovers (up or down).Data from January 1, 2017 to December 31, 2020 was investigated for herding. The paper presents an alternative approach to testing herding behavior in the Indian stock market using the measure of cross-sectional absolute deviation and a semi-parametric estimator of quantile regression. Data analysis shows that throughout the whole span, herding behaviour is clearly evident. When the market is volatile, there is little evidence of herding. Another study found herding behaviour in fluctuation markets in India, though it is more pronounced in up markets, which is steady with the overall results. The study has limitations because we used monthly traded stock values of five IT businesses and the SENSEX to compare market performance. Herding behaviour is analysed using market returns solely. This study applies to real-world financiers, regulators, and lawmakers. The COVID-19 pandemic has created a "new set of normalcy" for merchants. Any behavioural bias might cause asset valuation inefficiencies. Herding behaviour hinders rational asset pricing theories under exogenous events. Thus, scholars must create new value models. Disruption and information asymmetry damage the market. Instead of following the crowd, investors should have a "investment vision" that guides their decisions. The study investigate herding behaviour in Bombay Stock Exchange (BSE) and fluctuation markets in India

Keywords: herding behaviour, stock market, market returns.

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Attitude of Teachers, Students and Parents towards continuous and comprehensiveevaluation

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ABSTRACT Education and evaluation are two processes that are intertwined. Evaluation is as old as the educational process itself. Education, in its broadest sense, refers to the development of abilities, skills, and personality traits that are significant in an individual's personal and social life. The purpose of educational activity. Due to the shortcomings of the previous method, the evaluation system is changed from time to time. A new method of evaluation is Continuous and Comprehensive Evaluation. The study's goal is to determine how teachers, students, and parents feel about continual and comprehensive evaluation. The study sensitive the study employ the survey approach. A sample of 50 teachers, 50 students, and 50 parents was chosen using a simple random sampling technique. The data is collected using a self-made tool. The data is analysed using the mean, standard deviation, and 1-test.

KEY WORDS: Attitude, Continuous and Comprehensive Evaluation, Teachers, Students, Parents,

INTRODUCTION School is a child's first encounter with the outside world; school education is critical for a child's overall development because it is where they first gain access to the necessary know-how to meet the demands of modern lifestyles. According to various experts, India's traditional dotestino system has become outdated, and students have experienced excessive workloads. Children today are hampered by a lack of time, as they are expected to work extremely hard in school. Furthermore, there are cause at equaliar intervals, making life even more difficult for the children. The modern world has become stressful, which can have a variety of negative effects on their overall personality traits in the future. Authorities have been debating for a long time where a qualitative change in the lives of young schoolchildren can be achieved. Also, there is a need to change the effects on their overall personality traits in the future. Authorities have been debating for a long time where a qualitative counter of the announce students received grades instead of marks. Mr. KapilShal, Union Minister for Human Resource Development, announced the laurch of the new cloactain system on September 7, 2009. According to the announcement, no Class X board examinations will be held beginning in 2011. Instead, through an internal assessment, students will be promoted to the serior socondary level. Because the discision was made in the middle of the accenteix year, students in Class X in the current be graded in nine categories, naging from exceptional to unsatisfactory, according to the Central Board of Secondary Education (CBSE).

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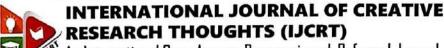


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Bioethanol Production with the Inoculation of Yeast Using Vegetable and Fruit Wastes as Substrate

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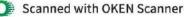
Abstract: In the current climate change situation, finding alternative energy sources is critical to reduce the usage of fossil fuels. Bioethanol, as a biofuel has got an exceptionally role in the world. Second-generation bioethanol can be made from undesired biomass such as fruit and vegetable wastes, and it is a promising alternative to fossil fuels. Bioethanol production using five fruit and vegetable wastes, banana (*Musa paradisiaca*), papaya (*Carical papaya*), sapota (*Manilkara zapota*), pomegranate (*Punica granatum*) and potato (*Solanum tuberosum*) were studied in submerged fermentation using their autohydrolysis liquor by fermenting with yeast isolated from grapes. The greatest amount of bioethanol produced differed from day to day throughout fermentation. The ethanol yield of substrates increased gradually from 24 to 72 hours during the fermentation period. Maximum alcohol content 18.5%(v/v) and 17.4%(v/v) were observed in potato peel and banana peel at 72hrs respectively. Bioethanol obtained from sapota peel, pomegranate peel and papaya peel were found to be 16.5% (v/v), 15.2% (v/v) and 13.2% (v/v) respectively.

Key words: Biomass, Bioethanol, Fossil Fuel, Second-generation Production, Autohydrolysis Liquor, Yeast.

I. Introduction

Global energy consumption has gradually expanded in tandem with the growth of the human population and the rise of industrial affluence. Import of transport fuel is affected by limited reserves of fossil fuel. Within the next few years, annual global oil production will begin to decline Renewable energy sources could be an alternative option in this circumstance. Renewable energy sources include wind, water, sun, biomass, and geothermal heat, whereas fuel production and the chemical sector may rely on biomass as an alternative source in the near future. Renewable biomass fuels, such as bioethanol, biodiesel, and biohydrogen, generated from sugarcane, corn, switchgrass, algae, and other sources, can be used to replace all petroleum-based fuels¹. Worldwide ethanol demand is steadily expanding as a result of fast population expansion and industrialization. Due to their primary value as food and feed, conventional crops such as corn and sugarcane are unable to supply the global demand for bioethanol production. Second-generation bioethanol production necessitates the development of cost-effective and sustainable processes that use renewable lignocellulosic biomass as a starting material. Therefore, agricultural wastes are attractive feedstocks for bioethanol production. These wastes are cost effective, renewable and abundant Underutilized organic wastes such as fruit and vegetables have biological and chemical potential in producing bioethanol. Some biological potentials include the possibility of indigenous microorganisms like Candida spp². Fruit and vegetable wastes, on the other hand, contain chemical potential due to large levels of complex saccharide in the form of lignocellulose. Lignocellulose from a rich source might be hydrolyzed into D-glucose and D-xylose, which could then be converted to bioethanol by microorganism3. In many Indian towns, the demand for fruits and vegetables is driving up the volume of organic wastes. In a traditional market, waste from fruits and vegetables is the most common type. It was found that banana, papaya, sapota, pomegranate, and potato wastes were dominated in most of the markets. The characteristics of organic wastes at traditional markets were affected by waste dominance, with water content of 84.46 percent, dry matter 15.54 percent, volatile content of 91.80 percent, ash content of 8.2 percent, C-organic content of 68.62 percent, total nitrogen level of 2,22 percent, and C/N ratio of 30,9124.

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Research Article

BIOETHANOL PRODUCTION FROM IXORA COCCINEA AND

QUISQUALIS INDICA FLOWERS

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ABSTRACT

Biofuels , the fuels that are derived from living matter, usually plants, have emerged as a highly promising source of alternative energy, and have drawn global Research and Development for their production using biomass which is defined as the organic matter used for producing fuel such as lignocelluloses wastes, municipal solid wastes, flowers, weeds etc . A traditional method of bioethanol production mainly requires fruits, sugarcane, honey etc. all which are major food products. There is an increased interest in finding an alternative, cheaper biomass for production of bioethanol. Nectar is a sugar-rich liquid produced by flowers. Flowers of Ixora coccinea (the West Indian jasmine) and Quisqualis indica (Rangoon creeper) contain fermentable sugars. Fermentation of these two fresh flowers with two different strains of Saccharomyces cerevisiae was carried out by submerged fermentation method. Estimation of reducing sugar was done by DNS and glucose by GOD-POD method. The initial reducing sugar content of Ixora coccinea was 1350µg/ml and was decreased after the fermentation to 740µg/ml. Whereas in the flower sample of Quisqualis indica, the initial sugar content was 1900µg/ml and was decreased to 570µg/ml and the glucosc concentration was estimated to be 620µg/ml in ixora coccinea and 340µg/ml in quisqualis indica by GOD-POD method. The bioethanol estimation was done by dichromate method and the bioethanol yield was found to be 1.34gm% in Quisqualis indica and 1.46gm% in Ixora coccinea.

Keywords: Biofuel, Biomass, Bioethanol, Ixora coccinea, Quisqualis indica

INTRODUCTION

Bioethanol production from renewable sources to be used in transportation is on increasing demand worldwide due to continuous depletion of fossil fuels . Because of the dependence on petroleum-based fossil fuel which is exhausted very fast to meet the continuously increasing demands, the need to produce biofuels has risen. It has been realized that fossil energy causes greenhouse gas emissions that have adverse effects on the environment. Burning of petroleum-based fuels causes the increase of CO2 level in the environment which is directly responsible for global warming. Hence, it is an ongoing interest to find out a renewable and environmentally friendly source of energy for our industrial economies and consumer societies. Bioethanol in this aspect is an

attractive option for renewable and sustainable energy source.

Bioethanol is primarily produced by sugar fermentation process, although it can be produced by the chemical process of reacting ethylene with steam. Bioethanol is reduced from biomass mostly via a fermentation process using glucose derived sugars, starch, cellulose etc., as raw materials extracted from plants. However, these crops can have a significant impact on food security. Hence an alternative method of producing alcohol from flowers and weed is studied in present day's work.

Production of bio-ethanol from maize, agro waste has been attempted with enzymes from different sources for hydrolysis of lignocelluloses and with different organisms for fermentation (oh green et al., 2006; Eken Saracoglu and Arslan, 2000; Cao et al., 1996 and







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A Novel Approach in Designing Pantomime Pointer

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ABSTRACT

Our application is a platform to aid the people with severe disability. We have developed a system which uses a camera and tracks a feature on person's face or hand or any part of their body which they can access easily. For example, the tip of the finger can also be selected and it can be tracked and papered on the screen as the reflection of the mouse pointer. Hence, the end user can get the access to the mouse pointer without using the mouse.

The tracking algorithm works well. This algorithm tracks a person's finger tip for many minutes without the intervention or any adjustments. There is no certain setup for the lighting conditions of the application at our implementation area. We just used standard fluorescent bulbs. Occasionally, the selected sub image creeps along the user's finger, for example up and down the finger moves, accordingly the mouse pointer moves in the monitor screen. Virtually Gestured Cursor provides a facility to the disabled people to access the computer easily.

Keywords: Dwell time, Feature, Gesture, lightening conditions, Sub image, Template, Tracking algorithm.

1.INTRODUCTION

Virtually Gestured Cursor is an application implemented under the Image Processing domain. Image Processing has a variety of co-domains like, Image Extraction, Image Analysis, Steganography, Pattern Matching etc. In our paper design, we have used almost all the codomains of the Image Processing Domain.

The base for any application in the Image Processing Domain is to gather all the inputs and perform Image Analysis. Image Analysis is the extraction of the semantic information from the images; especially from the digital images by means of the digitalized techniques. Image Analysis tasks are so simple as reading bar coded tags.

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Review on Agile Modeling for Distributed Development

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Abstract: As compared to the traditional process models, agile model has proved its worth with fast paced development and quick iterations. Enormous growth in global IT industry has created offshore clients and development resources for many software companies. Many global clients and organizations are out sourcing their projects for better work on cheap rates with high demands. Agile model has certain limitations when development environment is globally distributed and as in most cases client is offshore. Existing agile principles do not support distributed development architecture. This paper focuses on the problems that arise when client is offshore and proposes an agile model for distributed development environment.

Keywords: Requirement gathering. Distributed Development, Agile development

1. Introduction

The enormous growth in the global IT industry has opened doors for software companies with offshore clients involved in out sourcing their projects. Traditional web applications have been evolved into web Information Systems (IS). Globalisation have tremendously impacted IT industry and changes the IS development style dramatically [2]. Web applications vary from traditional software development in various terms like:

- 1. More technologies (HTML, XML, ASP, JSP, PHP etc.)
- 2. Large number of users
- 3. Fast development
- 4. Short and frequent iterations
- 5. Continuous maintenance
- 6. Scalability

Web application development contributes 70% of the total development to the IT industry. But there is still a lack of some well defined and established process model typically suitable for developing web applications. Web engineering follows many conventional Software Engineering's fundamental concepts and principles [8]. In addition, it incorporates specialized processes models, software engineering methods adapted to the characteristics of this kind of application, and a set of enabling technologies [6]. Agile model hence is a process model adapted by most of the software companies for web applications development. The claims made by agile process proponents and critics lead to questions about what practices, techniques, and infrastructures are suitable for software development in today's rapidly changing development. The principles of agile manifesto which were published by agile alliance during 2001 meeting are actually not the basis of agile development in these companies.

Agile model except some basic principles do not provide any concrete model and set of processes to be followed like Water fall model, Spiral model and Rapid Prototyping. Mostly agile practices are adaptive. Each organization modifies agile methods according to its requirements and development environment. This approach has produced many different development techniques each claiming to be an agile as in recent years a number of processes claiming to be "agile" have been proposed in the literature. This practice has left the standing principles of agile far behind [11].



International Journal of Research

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Challenges in Scrum Agile Development

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Abstract

Software Development plays a vital part in modern world. Off late more and more software development organizations are adopting agile software development methods and techniques. Successful agile adoption leads to producing higher quality software, enhance developers moral and at a lower cost than the conventional waterfall model approach. This study seeks to evaluate, synthesize and present aspects of research on agile methods, approaches adopted and the criteria utilized for agile practice selection

Keywords: Prototyping, Agile Software Development, Scrum, Backlog, Agile Testing

1. Introduction

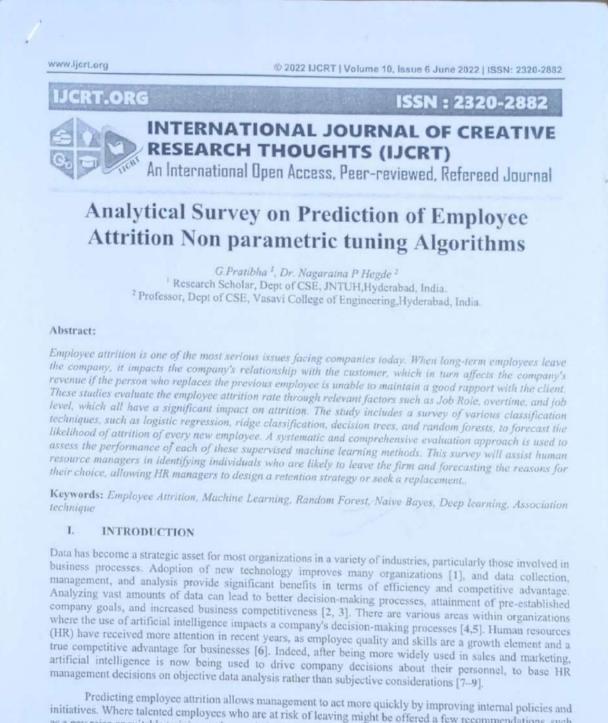
Software Engineering is the platform to develop the software step by step and to produce a high quality product at the end. There are many models to implement Software Engineering. All the models are actually based on Software Development Life Cycle (SDLC). The SDLC has phases or steps to be followed to achieve software development. These steps are customized to form a process model which will help the software engineers to follow a certain path. Some process models are Waterfall model, Spiral model, Prototyping, iterative and incremental model, rapid application development and agile model. Agile software development approach enables developing software in regular intervals, i.e., iterations, producing the software in increments^{1, 2}. This research concentrates on the major issues and challenges in Scrum method of agile model. Scrum is a process framework to deliver products with the highest possible value and handle complex problems or situations. Use iterative and incremental approaches to develop products using cross-functional teams^{1, 2}. The issues are listed and described below.

2. Issues with Prioritizing the user Stories

2.1 Assigning Product Backlog Items

In scrum method Product Backlog Item is central. The PBI contains a prioritized list of all items relevant to a specific product. Bugs, customer requested enhancements, competitive product functionality, competitive edge functionality and technology upgrades are available in this list ³. The first major issue is to convert user stories into Product Backlog Items. There is lots of confusion in assigning PBIs from the Software Requirement Specification document. There are cases in reality wherein either PBI are assigned directly from the functionalities of the software that is requested by the client or the Scrum team assigning the PBIs or in some cases PBIs are assigned based on the sprint duration^{4, 5}. These cases are not the right method to assign PBIs. A scrum team cannot assign PBI since the team





initiatives. Where talented employee annows management to act more quickly by improving internal policies and as a pay raise or suitable training, to lessen their likelihood of leaving. Machine learning models can assist firms in anticipating staff attrition [10, 11]. Analysts can construct and prepare a machine learning model that predicts workers leaving the firm using previous data stored in human resources (HR) departments. It built such models to investigate the relationship between the characteristics of both active and terminated personnel. Furthermore,

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Low Complexity Early Employee Attrition Analysis Using Boosting and Non-Boosting MI Techniques

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Abstract: Every company, regardless of location, industry, or size, struggles with the problem of employee turnover and attrition. Predicting employee turnover is one of the top priorities for the human resources departments of many businesses because it is such a significant challenge. Employee turnover costs organizations a lot of money. In this research, we implemented multiple machine-learning methods to create a model that predicts employee attrition. Among them, the CatBoost algorithm is incorporated to identify a suitable approach for predicting employee attrition tasks early. The primary purpose is to find a method to predict the number of employees leaving their jobs accurately. Following training, the model for predicting employee attrition is assessed using a real dataset provided by IBM Analytics. This dataset has 35 features and around 1500 samples and is used to evaluate the model. Using CatBoost, we got a high accuracy on the Kaggle dataset titled "IBM HR Analytics Employee Attrition & Performance." We recommend using a technique called "synthetic generation" to create more combined features based on arithmetic operations, which improves the accuracy and area under the curve (AUC) of the original CatBoost model. This will allow you to get the most out of the fundamental characteristics of the dataset. We achieved high accuracy of 95.84% and consumed less time of 2.15 see as related to relevant studies; this indicates that our method is effective.

Keywords: CatBoost, Employee attrition, HR analytics, Random Forest, Synthetic features

1. Introduction

Employee attrition is one factor contributing to the number of employees leaving their jobs. It comes at a financial cost in the kind of costs for hiring and training. Whenever experienced employees need to be replaced since they have moved on to work for competing companies [1, 2]. In addition, when a person leaves their position, they take explicit and tacit knowledge with the potential to disrupt critical social ties [3, 4]. Therefore, a company should prioritize decreasing employee turnover to keep a competitive advantage over its competitors. As a consequence of this, for the benefit of the corporation, the leaders of the corporation need to gain an understanding of the primary factors that contribute to the decisions that their employees make to leave the company and then take the right actions to boost the productivity. general workflow, and overall performance of their organization after their employees have left the company.

On the other hand, a higher retention rate signifies a reduction in the costs of employing new employees and training them, in addition to individuals with more experience and more experienced people joining the company's staff over time. Therefore, organizations currently have a strong commercial interest in understanding the causes of employee turnover to prevent

* Research scholar, Dept. of CSE, JNTUH, Hyderabad, Telanguna, India ³ Professor, Dept. of CSE, Varavi College of Engineering, Telanguna, India * Corresponding Author Email: pratibhophd123/agmail.com employee attrition. In general, it is a goal of businesses to increase their profits as much as possible. Because they have fewer contractual obligations, workers at firms where they do basic tasks might turn to

on-call, occasional, and temporary labor. However, in firms where employees execute highly specialized jobs, employee specialization and continuity of work become critical. It has been demonstrated that businesses must recognize the importance of a person's competencies and capacity to acquire new information while working. As a result of the use of artificial intelligence in human resources, businesses can now convert data into knowledge in several ways, one of which is through the implementation of predictive models. These models make it possible to make predictions about employees based on data acquired by the organization over the preceding years. As a result, significant problems are mitigated, and all HR-related tasks are optimized.

As a consequence, estimating the employee turnover rate and determining the key contributing factors contributing to attrition in the existing organizations [5]. Several studies on employee attrition exist, one of which is the study in [6], which investigated the factors that impact employee turnover in the information technology division. They used a questionnaire to collect data from all 300 IT staff members in the division. They used a strategy based on fundamental percentages, the chisquare test, and the correlation coefficient technique. They concluded that there is no connection between



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Employee Attrition Prediction based on Grey Wolf Optimization and Deep Neural Networks

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Abstract: Despite the constructive application of promising technologies such as Neural Networks, their potential for predicting human resource management outcomes still needs to be explored. Therefore, the primary aim of this paper is to utilize neural networks and metaheuristic technologies to predict employee attrition, thereby enhancing prediction model performance. The conventional Grey Wolf optimization optimization (GWO) has gained aubstantial attention notice because of its attributes of robust convergence, minimal parameters, and simple implementation. However, it encounter problems with slow convergence rates and susceptibility to local optima in practical optimization of Cauchy-Gaussian mutation, which contributes to enhancing diversity within the leader wolf population and enhances the algorithm's global search capabilities. Additionally, this work preserves exceptional grey wolf individuals through a greedy selection of 2 mechanisms to ensure accelerated convergence speed. The results shows that the proposed model achieved the accuracy of 97.85%, precision of 98.45%, recall of 98.14%, and f1-score of 97.11%. Nevertheless, this paper extends its scope beyond merely predicting employee attrition probability and activities to enhance the precision of such precision of such precision of such precision generates in proved model employing a Deep Neural Network (DNN).

Keywords- Machine learning; Employee attrition, prediction model, Grey Wolf Optimization, Cauchy-Gaussian mutation

L INTRODUCTION

In the contemporary competitive economy characterized by increasing technological specialization, the acquisition, study and analysis of data have given rise to a new concept known as the "knowledge economy." Information technologies not solely function as a data source but also assume a vital role in facilitating data analysis. This enable the processing of large data sets and the extraction of valuable information from them. Data has become a strategic asset for a wide range of organizations across various sectors, including those involved in business processes. The adoption of new technologies benefits all types of organizations [1], and the collection, management, and analysis of data offer numerous advantages in terms of efficiency and gaining a competitive edge. Certainly, examining extensive datasets can result in improvements in decision-making, the attainment of established corporate objectives, and heightened business competitiveness [2, 3]. Predicting employee attrition in advance can aid in preventing or minimizing its repercussions on an organization. Some literature suggests that content and motivated employees tend to exhibit greater creativity, productivity, and overall performance [4].

Organizations can leverage their HR data to make such predictions by employing predictive models designed for this purpose. In recent times, artificial intelligence (AI) has been applied across diverse domains, such as healthcare, education, the economy, and governance [5, 6]. Notably, there has been a growing focus on using AI for predicting employee attrition, reflecting the increasing research attention in this area. Furthermore, the growing volume of data on this subject has spurred an increased number of studies in this field [7, 8]. This research paper specifically centers on forecasting employee attrition using deep neural networks, employing the IBM Watson dataset for training and testing purposes. This dataset comprises 35 features for a total of 1470 samples, categorized into two classes: current employees and former employees. Notably, the samples are imbalanced, consisting of 237 positive instances (former employees) and 1233 negative instances (current employees). This class imbalance presents a considerable challenge in the prediction process. Workplace absenteeism may be predicted using a deep neural network, as shown in [9]. They demonstrated that their technique was 97.5% accurate compared to the 85% accuracy of the standard model. Later, in [10], an enhanced Deep Belief Network based on GWO is used to predicting employee turnover. Slow convergence time and a propensity to settle on a suboptimal solution are two issues that plague GWO.

To solve this the present paper contributions can be concisely summarized as follows: First, we have connected deep learning techniques along with preprocessing steps to enhance the accuracy of employee attrition predictions. Second, we have



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Abstract

Background: Amavata (Rheumatoid Arthritis) is a chronic progressive disease, resulted from the conglomeration of Ama and aggrevated Vata dosha which gets lodged in the small joints followed by large joints. If it is left untreated, may cause various complications in the form of Vataja diseases in which Raktadhatu kshaya (Anaemia) and Mutrakricchra (Urinary Tract Infection) are predominant. But it needs robust evidence to revalidate the same. Aim & Objective: To evaluate the association of Raktadhatu kshaya (Anaemia) and Mutrakricchra (Urinary Tract Infection) with Amavata (~Rheumatoid Arthritis). Materials & Methods: A case-control study was conducted from 18.04.2018 to 09.01.2020, containing 155 cases (patients of Amavata), and 163 controls (healthy volunteers), matching in age (between 18 to 50 years), and sex, selected from Jamnagar district. Health Assessment proforma of TRISUTRA project CSIR-AYURGENOMICS for health assessment, ACR, 1987 Criteria for RA diagnosis were used. Chi-square test was applied to find the association of Raktadhatu kshaya (Anaemia) and Mutrakricchra (Urinary Tract Infection) with Amavata whereas Unpaired or Mann-whitney U test was applied to compare the hematological parametres between case and control group. Results: Statistically significant differences were found in the mean values of haemoglobin, total leukocyte count, neutrophils, lymphocytes, eosinophils, monocytes, MCV, MCH, MCHC, PCV, total RBC count, and platelet count among both the groups. Microcytic and Dimorphic Anaemia were substantially higher (P<0.0001) in the Amavata patients than in the controls (x2 value=24.814). The prevalence of UTI (presence of pus cells in the urine) was found significantly more (P<0.0001) in Amavata patients than healthy individuals (χ^2 value=45.347). Conclusion: Anaemia and Urinary tract infections are strongly associated with Amavata (~Rheumatoid Arthritis).

Key Words: Amavata, Anaemia, Case-control study, Haematological parametres, Rheumatoid Arthritis, Urinary Tract Infection.

Introduction

The word 'Amavata' is a conglomeration of 'Ama' and 'Vata'. Madhava Nidana, a medieval treatise of ayurvedic diagnostic system and pathology, is the first one to propose the disease Amavata to the ayurvedic fraternity. Amavata can be correlated with Rheumatoid Arthritis (RA) in contemporary medicine, its etiology includes excessive intake of Guru (heavy), Snigdha (oily), Viruddhahara (incompatible), Asatmya and Apathya (unwholesome), and irregular diet intake, which impairs Agni (a digestive mechanism), results in Agnimadya (indigestion), the primary step in the

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formation of Ama (undigested material) (1). If this Ama combines with vitiated Vata dosha and while circulating all over the body, it gets lodged in joints and results in Sandhi-Shoola (joint pain), Sandhi-Shotha (swelling in the joints), Jwara (fever), Sandhi-Stabdhata (stiffness in joints), loss of appetite, indigestion, and body ache (2). The potential complications of Amavata include Jadata (ankylosis of the joint), Sankocha (abnormally fixed state of any limb in flexion or inability to extend the limb), Khanjata (affliction of Kandara in the thigh region), Angavaikalya (swan-neck buttonhole deformity, z-deformity, ulnar deviation, cock-up toe deformity, etc.,) Granthi (subcutaneous nodules), and other Vataja disorders. These complications have arisen from the Amayuktarasadhatu which cannot continue Uttarottara Dhatuposhana, thereby it worsens the quality of life of the patient. The disturbed Dhatuposhana (sequential nourishment of body tissues) may lead to Ojokshava also, which may stimulate the pathogenesis of other diseases. Raktadhatu kshaya (anaemia) Mutrakricchra (urinary tract infection) also





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Influence of *Deha-Prakriti* (Body Constitution) in the manifestation of disease in context to *Amavata* (Rheumatoid Arthritis) - An appraisal

Review Article

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Abstract

Deha-Prakriti (DP) is Ayurveda's one-of-a-kind contribution, established at conception and cannot be changed throughout one's life. There are seven varieties of DP. Vataja, Pittaja, Kaphaja (Shleshmala), Samsargaja [combination of two Dosha] i.e. Vata-Pittaja, Pitta-Kaphaja, Kapha-Vataja, Sannipataja [combination of three Dosha] i.e. Vata-Pittaja, Pitta-Kaphaja, Kapha-Vataja, Sannipataja [combination of three Dosha] i.e. Vata-Pitta-Kapha. The first and most important aspect of Dashavidha-parikshyabhavas (ten important examination factors to be known by the physician) is the DP assessment since it plays a crucial part in Rogi-Pariksha (evaluation of the patient) and Roga-Pariksha (assessment of the disease). DP allows a physician to assess the condition of Koshtha (digestion system), Agni (digestive capacity), Bala (strength), and Ayu (life-span) in both healthy and diseased people. It may also help a physician forecast illness susceptibility, severity of signs and symptoms, disease activity scores, and bio-markers such as hematological, pathological, and biochemical indicators. Based on the severity, a physician may prepare the appropriate diet-chart, medication, dose, Anupana (co-drink to the primary medicine), and the research strategy for future studies. An overview of evidence-based study on developing Deha-Prakriti with diverse illness conditions may be provided in this work, allowing for the revalidation of ayurvedic literature-based assertions.

Key Words: Amavata, Deha-Prakriti, Disease susceptibility, Roga-Pariksha, Rogi-Pariksha, Rheumatoid Arthritis, Severity of the disease.

Introduction

The ancient Indian medical science, Ayurveda has expanded its wings in two ways viz. "Swasthasya swasthya Rakshanam"- preserving the positive health of a healthy individual and "Aturasya Vikara Prashamanam"- treating a patient's disease (1). To accomplish these two aspects, Ayurveda advocated several Siddhantas (concepts), in which Rogi-Pareeksha (examination of the patient) as well as Roga-Pareeksha (assessment of the disease), two main pillars for Cikitsa (treatment), which aids a physician to determine the Bala (strength) of a patient and to estimate the severity of the disease respectively (2). In Deerghamjivitiyam Adhyaya, the first chapter of Caraka Samhita sutrasthana (an ancient Indian medical treatise), Acarya Agnivesha has quoted that "Purusham Purusham veekshya sa inevo Bhishaguttamah" - the best physician

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Assistant Professor, Department of Samhita and Siddhanta, Mahatma Gandhi Ayurvedic College, Hospital & Research Centre, Salod (Hirapur), Wardha, DMIMS (DU), Maharashtra. India. Email Id: rajkumarchinthala207@gmail.com (Uttama Bhishak) is who examines each patient accurately, thereby prescribes or advice the management that prevents from medical errors (3). Furthermore, to achieve success in the direction of a disease, a total of ten examination factors have been enlisted in Vimanasthana of Charaka Samhita with a term as "Dashavidhapareekshyabhavas", in which the first and foremost factor is "Deha-Prakriti (DP- body constitution)" (4). As per Charaka Samhita, DP is 4 types namely, Vatala, Pittala, Shleshmala, and Samadhatu Prakriti (5). According to Sushruta Samhita, DP is of 7 types. Vataja, Pittaja, Kaphaja, Samsargaja [combination of two Dosha] i.e., Vata-Pitta, Pitta-Kapha, Kapha-Vata and Sannipataja [combination of three Dosha] i.e., Vata-Pitta-Kapha (6). DP enables a physician to estimate the status of Koshtha (digestion system), Agni (digestive capacity), Bala (strength), and Ayu (life-span) in both the healthy as well as the patient (7). It also aids a physician to predict the disease susceptibility, severity in terms of signs and symptoms, variations in disease activity scores, changes in hematological, pathological, and biochemical markers.

Modern scientists and clinicians have developed their confidence in P4, or predictive, preventive, personalized, and participatory medicine, during the past decade. Despite all current studies, individual differences in illness manifestation and the effects of



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Original Research Article

A case-control study for exploring the association of Prakriti with Rheumatoid Arthritis



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Keywords: Amavata Case-control study Deha-Prakriti Logistic regression Rheumatoid Arthritis

ABSTRACT

Background: Deha-Prakriti (DP) is a unique contribution of Ayurveda, which distinguishes the population into three main groups viz., Vata, Pitta, and Kapha predominant individuals. Its assessment helps physicians to prescribe a suitable diet, daily regimen, and lifestyle that prevents non-communicable diseases. Amavata (Rheumatoid Arthritis) is a disease that needs personalized management approach. Aim: To evaluate the association of DP with Amgyata (~Rheumatoid Arthritis).

Objective: To evaluate DP-based susceptibility in the manifestation of Amavata vis-à-vis Rheumatoid Arthritis.

Methodology: A case-control study was conducted from 18.04.2018 to 09.01.2020, involving 150 cases (patients of Amavata), and 150 controls (healthy volunteers), matching in age (between 18 to 50 years), and sex, selected from Jamnagar. CCRAS-PAS for both the groups, Health Assessment proforma of TRI-SUTRA project CSIR-AYURGENOMICS, were used. Logistic regression analyses were conducted to determine the relationship between DP and Amavata.

Results: The proportion of people with Vata dosha in the case group (53.79%) was substantially higher (P < 0.0001) than in the control group (24.91%). Pitta (39.35%) and Kapha (36.27%) doshas were found to be more prevalent in the control group (P < 0.0001). There was a six-percent rise in the likelihood of developing Amavata with every unit increase in Vata percentage, according to logistic regression analysis. Conclusion: Vata predominant DP has a significant association with Amavata. Vata predominant DP individuals are more susceptible to Amavata than Pitta and Kapha predominant DP individuals.

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1. Introduction

Ayurveda, a traditional medical system of India, substantiates the psychosomatic constitution of an individual with the concept of Deha-Prakriti (DP), [1]. "Prakriti" is an individual's innate psychosomatic framework determined at the earliest stages of fertilisation by the relative predominance of Sperm and Ovum [2]. Human constitution is unaltered from conception to death until fatal signs appear [3]. Phenotypic heterogeneity is the main complication encountered in contemporary medicine in the context of complex disease genetics.

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DP separates people into Vata, Pitta, and Kapha phenotypes. Ayurveda literature speculated that some individuals may have balanced Vata, Pitta, and Kapha, while some show either Vata or Pitta or Kapha dominance. First-category, people with Sama Prakriti, those have balance of Tridoshas and are healthy while others may develop diseases [4]. Vata, Pitta, and Kapha dominants are weak, medium, and strong respectively [5]. Sama Prakriti people are resistant to diseases. People with only one vitiated dosha are generally unhealthy, but they can stay healthy by eating and exercising according to their constitution [4]. DP determines disease susceptibility, severity, diet, and regimen in Ayurveda [1, Vimana 6/ 15]. The confirmation of Deha- Prakriti is essential to examine a healthy person or patient's physical, physiological, and psychological traits and recommend a diet and lifestyle for good health, preventative medicine, and therapy. Ayurvedic seers ranked Prakriti

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Variations in the severity of symptoms, DAS28, and Disability Index among different *Vata* predominant *Deha-Prakr*iti individuals of *Amavata* (~Rheumatoid Arthritis) - An Analytical Observational Study

Research Article

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Abstract

Background: *Deha-Prakriti* (DP) phenotypic categorization of Ayurveda will subgroup afflicted populations by severity to help treat the illness more accurately and selectively. But data creation is scarce. *Amavata* (~Rheumatoid Arthritis) is one of such diseases, is caused by the accumulation of *Ama* and exacerbated *Vata* in the joints. Aim: To assess symptom severity, duration of morning stiffness, DAS28, and DI among different *Vata*-dominant DP patients of *Amavata*. Material & Methodology: The CCRAS-PAS scale was used to screen 155 clinically diagnosed *Amavata* patients for DP. Those with Vata predominant DP were divided into Single *Vataja* (V), *Vata-Pittaja* (VP), and *Vata-Kaphaja* (VK) DP based on *dosha* proportion in scale output. demographic profile, symptom intensity, duration of morning stiffness, DAS28, and DI were analysed using SPSS software version 20.0. Results: Kruskal-Wallis test showed that Single *Vata* dominating DP patients had more severe *Sandhi-shula* (joint pain) (p<0.0001), *Shunatanga* (joint numbness) (p=0.0069), and *Nidra-Viparyaya* (irregular sleep patterns) (p=0.0012) than VP and VK DP persons. *Sandhi-Shotha* (joint swelling) (p=0.0299), *Angamarda* (generalised body pains) (0.0130), *Alasya* (laziness) (p<0.0001), *Gaurava* (heaviness) (p<0.001), and *Apaka* (delayed digestion) (p=0.0254) were severe in VK DP, while *Trishna* (thirsty) and *Nidraviparyaya* (p=0.0012) were more severe in VP DP individuals. ANOVA analysis showed that morning stiffness (2.03±0.2 hours, p value 0.446), DAS28 (6.85±0.175, p value 0.0035), and DI (1.87±0.54, p value 0.0003) were substantially higher in solitary *Vataja* compared to VP and VK DP. Conclusion: Single *Vataja* DP had more severe morning stiffness, DAS28, and DI. Sign and symptom intensity differed by DP.

Keywords: Amavata, DAS28, Deha-Prakriti, Disability Index, Disease severity, Rheumatoid Arthritis (RA), Vata.

Introduction

In terms of life science, health, and therapy, Ayurveda is the most ancient and classical knowledge foundation; its antecedents trace back to the scriptures (1,2). Genetics of complicated illness problems have phenotypic heterogeneity, which is the major constraint in current modern medicine. This mandates the use of alternative and combinational therapy (3,4). When it comes to addressing this issue, Ayurveda has a unique technique known as Deha-Prakriti (DP), which designates people into Vata-predominant, Pittapredominant, and Kapha-predominant categories based on their body types (5). It shows that ayurvedic treatises from thousands of years ago defined the notions of individualized and preventative treatment (6,7). The evaluation of DP of an individual is given first and foremost place among the Dashavidha Pareeksha (ten-

* Corresponding Author: **Rajkumar Chinthala** Assistant Professor, Department of Ayurveda Samhita & Sddhanta, TTD's SV Ayurvedic College, Tirupati - 517507. Andhra Pradesh. India. Email Id: drrakayu1986@gmail.com fold examination methods mentioned for the assessment of a patient's strength) (8).

A person's anatomical, physiological, and psychological constitution impacts their biological functions and reactions, according to the DP model (9,10). During conception, DP is determined by the relative preponderance of three Doshas (Body humoral factors viz. Vata, Pitta, and Kapha), constituted of Panchamahabhutas, namely Prithvi, Ap, Tejo, Vayu, and Akasha, (earth, water, fire, air, and ether respectively) (11). For example, a healthy person has all three Doshas in balance (12). The literature enlisted seven types of DP, namely, Single Vataja (V), Pittaja, Kaphaja; Dwandwaja (dual combinations) Vata-Pittaja (VP), Vata-Kaphaja (VK), Pitta-Kaphaja and Tridoshaja or Samadoshaja Prakriti (13). According to ayurvedic literature, the disease's susceptibility and severity may also be affected by the DP (14). Based on the existence of powerful and comparable etiologies, it is said that a person is more susceptible to illnesses impacted by the same dosha of individuals Prakriti (15). For instance. Kapha-vardhaka or Kaphaprakopaka etiological variables produce severe Kapha dominant illnesses in Kapha dominant DP persons more rapidly and readily than the other DP individuals. Vata,



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SIGNIFICANCE OF NYAYAS (MAXIMS) IN UNDERSTANDING PHILOSOPHICAL ASPECTS OF AYURVEDA: A CRITICAL REVIEW

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> Abstract: Introduction: The word 'Nyaya' (maxim) is defined in Sanskrit dictionaries as a tool to determine the meaning of Vedas. Maxim packs a lot of meaning into a nugget of words. Mainly two types of Nyayas are found viz. Laukika Nyayas and Shastriya Nyayas. Since antiquity, various Sanskrit scholars integrated these maxims in their works to disseminate the subject matter in a lucid manner. Similarly, ancient ayurvedie seers utilized different maxims in many instances for the better understanding of ayurvedic concepts. Philosophical concepts are one amongst them. It is essential for an ayurvedie scholar to understand the philosophical concepts since philosophical equilibrium plays a pivotal role in maintaining Swasthya (health). Materials and Methods: Original texts of Brihattrayi (Greater trio of Ayurvedic classics) along with available commentaries, translations, and published articles in peer-reviewed journals; books and other subject related material available online have been thoroughly screened, compiled, organized and described in a systematic manner. Observations and Results: After a thorough screening of Brihattrayi, it was observed that total 70+ maxims have been found in 150+ different contexts of Brihattrayi. Among them, Shilaputraka Nyaya, Utpalashatapatravedhini Nyaya, Alatachakradarshana Nyaya, Dirgha-shashkuli bhakshana Nyaya and Pinda-Brahmanda Nyava were found in different philosophical contexts of Brihattrayi where as Andhapangu Nyaya, Vichitaranga Nyaya and Kadambamukula Nyaya were found in philosophical related literature. Shilaputraka Nyaya illustrates the characteristic similarity in Avyakta and its derivatives. The initiation of the evolution process is best visualized by Andhapangu Nyaya. The methodology of illustration of remaining maxims have been discussed in the full paper. Conclusion: The philosophical background is like a soul to Ayurveda and it is definitely not possible to learn Ayurveda based only on the limited approach by setting aside the philosophy. Philosophical aspects are difficult to understand for an average scholar. Maxims might be helpful to combat the obstacles as they illustrate these aspects with day-to-day life situations, thus emphasizing the inevitable role of maxims for the better understanding of philosophical aspects.

Keywords: Ayurveda, Brihattrayi, Maxims, Philosophical aspects. Received: Oct 11, 2018 Revised: Nov. 29, 2018 Accepted: Nov. 29, 2018, Published: Online First: Nov. 30, 2018

INTRODUCTION

Since antiquity, Sanskrit language is embellished and enriched by various scholars with the help of many devices among which the *Nyayas* (maxims) are the most important. Maxims are worldly sayings, they incorporate the stories or current legends among the people which imparts sound advice to the people. Maxims are the gems of wisdom, collected from the ocean of human behaviour patterns. The ever expanding horizon of worldly life is giving rise to condensed expressions of human traits. Though 'Nyaya (maxim) means justice, it expresses many more meanings. 'Maxim' word is well known as "the science of logic", which permeates wide sphere of human beings, animals, birds, trees and even inanimate objects. Maxims are very brief, mostly embodied in one compound with vague or concealed incidents [1]. There are mainly two types of Nyaya viz. Laukika Nyayas and Shastriya Nyayas. In Sanskrit rhetoric, various scholars integrated these maxims in their works to disseminate the subjec

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Review Article

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ANCIENT ARCHIVES OF DEHA-PRAKRITI (HUMAN BODY CONSTITUTIONAL TRAITS) IN AYURVEDIC LITERATURE: A CRITICAL REVIEW

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ABSTRACT

Since antiquity, Ayurveda possesses a unique identity by defining some distinct principles in which Prakriti is the one. Assessment of body constitution is the first and foremost factor in Dashavidha parikshas (10 important aspects to be examined by a physician). Dashavidhaparikshas are very essential to assess the strength of an individual and also the severity of the involved Doshas. Based on the descriptions available in Ayurvedic literature, Prakriti is a conglomeration of anatomical, physiological, psychological and sociological characters. Assessment of body constitution (Deha-Prakriti) is essential for every physician as it helps in selection of the drug or therapeutic procedure, determination of the drug dosage, mode of administration, and in prescribing wholesome, unwholesome diet and lifestyle. It also helps in the prediction of disease susceptibility and in the estimation of disease severity or prognosis. But these characters are not completely enlisted in a single compendium, they are scattered among different texts. Keeping this in view, the present research paper has been planned to collect all the characters (traits) related to body constitution, segregate and classify them as per different sections. This information will help in the development of an appropriate and reliable questionnaire to assess the precise and well-defined body constitution of an individual thereby facilitating a lot in clinical practice.

Keywords: Ayurveda, Dashavidha parikshas, Deha-Prakriti, Diet, Disease, lifestyle

INTRODUCTION

Prakriti is a unique concept of Ayurveda, according to which every human being is different from others and should be considered as a different entity. The word "Prakriti" means "Swabhava" or innate nature of an individual.1 Prakriti (human constitution) is a conglomeration of physical, physiological, psychological and behavioural (sociological) characteristics in human beings. It is formed in mother's womb at the stage of a fertilized ovum with effect preponderance Dosha (humour i.e., Vata, Pitta, Kapha) and never be changed throughout life.² By nature, the types of body constitution do not get aggravated, perverted or diminished except when the end of life is approaching. Doshaja Prakriti cannot be harmful to an individual like an insect born in poison does not become a victim of the fatal effect of the same.³ In Ayurveda, the human population is categorized into seven subpopulations based on their Prakriti viz. Vataja, Pittaja, Kaphaja, three types of Dwandwaja i.e., Vata-Pittaja, Pitta-Kaphaja, Vata-Kaphaja and Tridoshaja.

Acharya Charaka has delineated that there are six factors which influence the Deha-Prakriti (Human body constitution). Jatiprasakta (racial peculiarities), Kula-prasakta (familial predisposition), Deshanupatini (demographic), Kalanupatini In order to achieve success in the determination of body constitution, ancient Ayurvedic seers enlisted different kinds of characteristic features with respect to each Doshaja Prakriti based on their respective Gunas (qualities/characteristics).⁷ These characters are the visible forms of different attributes of respective Doshas. But these characters are not completely enlisted in a single compendium, they are scattered in different texts. Keeping this in view, the present work has been planned to collect all the characters (traits) related to body constitution, segregate and classify them as per different sections.

For the present work, Brihattrayi, Laghutrayi and other succeeding ayurvedic treatises such as Harita Samhita, Bhela Samhita, Vangasena, Vrindamadhava, Siddhasara Samhita, Kashyapa Samhita, Bhavaprakasha and Yogaratnakara were thoroughly screened for fulfilling the first aim of the study and then segregated the traits under different sections along with representing Doshas accordingly.

Archives of deha-prakriti (human body constitutional traits) in Ayurvedic classics

After a thorough screening of the above mentioned ayurvedic literatures it is found that Brihattrayi have deliberated the concept of Prakriti in a detailed manner, whereas other remaining



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Review Article

Significance of Shringagrahika Nyaya (maxim) in understanding Charaka Samhita in context to commentary of Chakrapani

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Abstract

Background: Ancient Ayurveda seers presented the knowledge in coded language, in the form of *Sutras* (verses). These verses are characterized by *Padairalpam*, *Matimbuddhwa*, i.e. having few words with concealed meaning with larger applications which can be explored with the help of Sanskrit grammar. Sometimes, just translation of the original verses might not convey the authentic and primary aim of the author as it depends on various factors such as the context, time and place. For this purpose, various commentators have adopted the methodology of integrating *Nyayas* (maxims) in their respective commentaries. *Shringagrahika Nyaya* (SGN) also belongs to the same category as it has been mentioned in several contexts in Chakrapani's Ayurveda Dipika (AD) commentary on Charaka Samhita. It is the maxim of seizing the ox by its horns. The present work is an attempt to explore the different contexts of SGN in AD commentary. **Aim and Objective:** To explore the significance of SGN in understanding Charaka Samhita in context to AD commentary of Chakrapani. **Materials and Methods:** Original text of Charaka Samhita along with Chakrapani's commentary, other available translations and published articles in peer-reviewed journals, published books and subject-related material available online have been thoroughly screened, compiled, organized and described in 12 different contexts out of which some are in positive and some are in negative sense. In a group of similar objects to indicate a particular one, this maxim has been used. **Conclusion:** To get authentic apprehension of Ayurvedic treatises, the knowledge of SGN is essential for the physicians, especially for better understanding of Charaka Samhita as well as successful implementation of fundamental concepts for the management of various disease conditions.

Keywords: Ayurveda Dipika commentary, Chakrapani, Charaka Samhita, Nyayas, Shringagrahika Nyaya

Introduction

Acharya Charaka has enlisted three methods to get profound knowledge from Ayurvedic treatises, viz., *Adhyayana* (study), *Adhyapana* (teaching) and *Tadvidyasambhasha* (scholarly discussion),^[1] whereas Acharya Sushruta has quoted four factors or qualities which enhance the intelligence and retention power, viz., *Satatadhyayana* (constant study), *Vada* (discussion), *Paratantravalokanam* (studying other branches of science) and *Tadvidhyaacharyaseva* (following the learned preceptors in the respective branches of knowledge).^[2] Thus, utmost importance is given for *Adhyayana* (study) which is not an easy task as the treasure of Ayurvedic knowledge is encrypted in the form of verses characterized by '*Padairalpam*

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Matimbuddhwa⁺ (larger application with minimal words).^[3] It can be explored with the help of Sanskrit grammar which comprises Shabdartha (meanings), Sandhi (conjunctions), Samasa (compounds), Vibhaktipratyaya (cases) and Alankara (figure of speech). Sometimes, mere translation of the original verse may not give exact idea of the author as it depends upon various factors such as the context, time and place etc. To over come this, various maxims have been brought into limelight by the different commentators.

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తారితరం దళితకథలు - సామాజిక విశ్లేషణ

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్త _అలుకమ్మత్లి శారద, సహాయ ఆచార్యులు, తెలంగాణ సాంఘిక సంక్షేమ గురుకుల మహిళా డిగ్రీ కళాశాల, వరంగల్ తూర్పు, వరంగల్ జిల్లా.

ఆధునిక తెలుగు సాహిత్యంలో ఉవ్వెత్తున ఎగిసిన ఇర్యమం దళిత సాహిత్యాద్యమం. సామాజిక పరి శామంలో దళితుల అస్తిత్వానికి, పోరాటానికి, చరిత్రలో ఫనర్నిర్మాణానికి దిక్పూచిగా నిలిచింది. "చాతువర్గం పయంసృష్ట్యా" అని భగవానుడు గీతలో చెప్పినట్లు బాహ్మణుడు, క్రతియుడు, దైర్యుడు, శూద్రుడు అనే వాలుగు వర్జాలు పోగా ఎుగిలిన ఐదవవాడైన "పంచముడు" తరతరలుగా, యుగయుగాలుగా అణిచి వేతకు గురి అవుతున్నాడు తన అస్తిత్వము కొఱకు పారాటం చేస్తూనే ఉన్నాడు. అసలు దళిత అనే పదాన్ని ఈ మధ్యకాలంలో ఉపయోగిస్తున్నారు. దళిత జాతి, అణచివేతకు వ్యతిరేకంగా అనాదిగా కొంత మంది దళితేతరులు కూడా పాటుపడుతున్నారు. శంకరా చార్యులు, రామానుజాచార్యులు మొదలైన వారు అస్బుశ్యతకు వ్యతిరేకంగా అందరిని దిశానిర్దేశం చేవారు. దళిత సాహిత్యాన్ని మొదటగా న్ఫుదించిన వారు పాల్కురికి సోమనాథుడు. ఆయన రాసిన బనవ ఫరాణంలోని గాథలన్ని దళితులైన శివభక్తులవే. ఇక్కడ దళిత సాహిత్యం గూర్చి ప్రస్తావించాలంటే "దళితుల జీవితాలను చిత్రించేది, దళితుల ఆర్తిని, ఆవేదనను, అవేశాన్ని, ఆగ్రహాన్ని, ప్రతిఘటనను, ప్రతిచించించేది, దళితులకు మెఱుగైన, సుఖమయమైన, అందరితో సహనమైన జీవన గమనాన్ని నిర్దేశించేది, దళిత చైతన్యాన్ని ్యక్రించేది దళిత సాహిత్యం" అని ఎస్వీ సత్య ారాయణ గారు అన్నారు. దళిత సాహత్యం రావాలి ^{8ంటే} దళిత జీవనఅనుభవాల నుండే రావాలి. సాను ాశితో సింపతి కాకుండా 'సహానుభూతి' (ఎంపతి)తో ్డే మాత్రమే సాహిత్యంలో గాథత వస్తుందన్నారు.

ఇక దళిత సాహిత్యం విషయానికి వస్తే కథలు అనేవి ఒక ప్రత్యకతను సంతరించుకున్నాయి. సాహిత్యంలోనే కథలది ఒక ప్రత్యేక విభాగం. 1920 దశకం దళిత బహుజన అస్తిత్వ చైతన్యం వికసించిన దశకం. వర్ధవివక్షకు వ్యతిరేకంగా ఒకవైపు (తిపురనేని రామస్వామి చౌదరి ప్రారంభించిన బ్రాహ్మణ వ్యతిరేని రామస్వామి చౌదరి ప్రారంభించిన బ్రాహ్మణ వ్యతిరేని రామస్వామి చెంది వాళ్ళు భాగ్యరెడ్డి వర్మ, అరిగ రామస్వామి వంటివాళ్ళు నడుపుతున్న దళిత అస్తిత్వ ఆత్మగౌరవ ఉద్యమం తెలుగునాట ప్రజాస్వామిక భావాల వ్యాప్తికి కారణ మయ్యాయి.

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తెలుగులో ఆధునిక కథ సంస్కరణోద్యమంతో పాటే రూపు దిద్దుకుంటూ వస్తున్నది. తొలి తెలుగు కథకురాలిగా గుర్తించబడిన బండారు అచ్చమాంబ అయినా, గురజాడ అయినా వారి రచనలలో దళిత ప్రస్తాపన కనబడదు. అస్పుశ్యతపై సమస్యపై "శ్రీ పాదసుబ్రహ్మణ్యశాప్రి రాసిన ఫుల్లం రాజు కథ (ప్రబద్ధాంద్ర - 1925) తొలి తరం మొదటి దళిత కథానిక గుర్తింపబడింది. అస్పుశ్యత నివారణ కోసం చక్రవర్తి ముందుకొస్తాడు ...చివరికి తియ్యటి మాటలు చెపుతూనే మాల మాదిగల మద్య తెలివిగా చిచ్చు పెట్టిన రామచంద్రయ్యను ఆధునిక మనువుగారచయిత ఆవిష్కరిస్తాడు. దళిత సమస్యను చిత్రించిన తొలి కథగా ఈ కథ సాహిత్య చరిత్రలో నమోదు అయ్యింది. 1927 జులై 16 నాటి గోల్కొండ పత్రికతో అచ్చయిన "యౌవన బాంతి" కథలో కొంత దళిత జీవిత పార్యాల ప్రస్తావన కనిపిస్తుంది. కటంగూరి నరసింహారెడ్డి కథా రచయిత. ఇందులో విఫల (పేమికుడైన సుదర్శనుడు అనే వాడి గూర్చి రాయబడిన కథ. ఇందులో ఎక్కడా ఆ యువకుడి కులం ప్రస్తావన కనబడకపోయినా రావు బహదూర్

⁸²⁸ జమిశ్రం - తార్హిక్ ధ్యక్తిధం, ప్రభుత్వ కఠాశాల, రాజమహేంద్రవరం - ప్రత్యేక సంచాక

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రావిశాష్ట్ర సాహల ISBN : 978-93-5680-076-2) 36. రాచకొండ విశ్వనాథ తాస్త్రీ - కథలు, సామాజిక స్పృహ చిలుకమత్తి శారద నహాయ ఆధార్యులు తెలంగాణ సాంఘిక సంక్షేమ గురుకుల మహికా కళాశాల వరంగలి తూర్పు, రంగళాయిపేట, వరంగలి රජයාන් : 90105 19559 Email: sharadachilukamani@gmail.com రావిశాస్త్రిగా ప్రసిద్యదైన రాదకొండ విశ్వనాధశాస్త్రి 1922 జుల్లై 30వ తేదిన శ్రీకాకుళులోని అతి సాధారణ కుటుంబంలో సీతాలక్ష్మీ నారాయణ మూర్తి దంపశులకు జన్మించాడు. తల్లికి సంగీత సాహిత్యాలలో ప్రదేశం ఉందదం దేశ బాల్యం మందే రావిశాస్టికి సాహిత్య పథనాభిలాష ఏర్పడింది. చిన్న వయసులోనే కార్టిస్ రైకెస్స్ నవలలు చదివి పదవాళ్ళ గురించి రాయాలనుకున్నారు. "అందినో లెహోర్"ను రదివి గట్టి కథలు రాయాలనుకున్నారు. అయన తన పరమూడవ పెటనే రచనలు దేశారు. అవి ఎన్నో పత్రికలలో ముధింపబద్దాయి. మొదట్లో కోన్ని తమాషా కథలు రాశారు. అయన తన పదుకొరన ఏట 1938లో 'దేవదు దేశాదు' అన్న పేరుతో 'వినోదని' పత్రికలో అచ్చయిన కథ అయన తొలికథ. (పేమ ఫరితం, జద్మాగం బౌరక్క పోతే, మీరే జలోచించండి అనే కథలు విద్యార్థి దళలో అచ్చయిన కథలు. జలివాడ కాంతారావు కాళీపట్నం రామారావు వంటి వారి వరిచయం రచయితగా అయనకు ఒక ఉళ్ళనిచ్చింది. అది కేవలం రచయితగా గుర్తింపబడాలన్న కోరిక ద్యూసమీ నేపథ్యంగా ఉన్న కథారచనకు ఒక ప్రయోజనం, నిజర్ధత ఉండాలన్న దృక్కడానికి దీజం చేసింది. 1935-36 లో కథారచన ప్రారంభించినా 1950 తర్వాతన్ జీవిత వాస్తవికతను కథావస్తువుగా శీసుకోవడం (ప్రారంభించారు. 1950 నుండి జీవికాన్ని అంటిపెట్టుకున్న రచనలు దేశారు. "రాదకొండ గళం రాజీవరని కలం అనేమాటను సార్థికం చేస్నూ అనేక రచనలు చేశారు. దిబ్బిఒక్క పెళ్ళ జీవితంలో యాత్రిందు ఎళ్ళు రచనలు చేయదం విశేషం ారావిశాస్త్రి దాపరికం లేని దొంగతనం ఎరుగని రచయిత. ఏపరిస్థితులలోనూ దాధ్యతను విస్తరించని రచయిత. భద్రత కోసం కీర్తి కోసం పాకులాడని రచయిత అంటారు" చలసాని ప్రసాద్. రావిశాస్ట్రి రాసిన కథలు దిర్దిఎదు దాక లభిస్తున్నాయి. నేటి సమాజంలో నిశ్వము, పై తరగతుల వారి అన్యాయాలకు, దౌర్జన్యాలకు గుర్రి చిత్రహించలు పడుతున్న దీనహీన ప్రజల శరుపున తన ప్రతీరచనలో వాదిందాడు. సమాజం అట్టడుగు పోరల్లో అనుక్రణం భయపడుతూ డుర్మన జీవితం గడిపే అనేక ంధోజగత్పరదల సమవులను, వాటివలన కరిగే దుంధాని సూటిగా గుండెలకు వాటేగా రెప్పి పై జీవితాలనట్ల పాఠమం సాగుభూతని పిందగం ఏకిక ప్రతిధావంతుడు. శ్రీశాకుశం విజయసగరం ప్రాంకాల మాందరికంలో రచనలు చేసి పరిశలను అకట్టకొని "ఏకవిగిన" చదివించగల అద్భుత రచయిత. (155) ADIKANT KANNAYA UNIVERSITY, RAJAMAHENDRAJARAM) Department of Telugu



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ఏలుక మ**ట్లి** శారద

తెలుగు సరిచింద ఆరాధ్యలు తెలంగాణ సాంఘిన ఎంద్రమ గందుకుం మహికా దిగ్గి కళాశాల పేరంగలి - శూర్పు పరంగలి తాల 9010519559 sharadachalokamarri@gmail.com

అనాదిగా సామాజిక దురాచారాలు ఏపి ఉన్నా వాటి కర్మక పాదాల డ్రింద నలిగేది స్త్రీ లేనగి మన చరిత చెబుతుంది. ప్రాధిన కాలం నుండి ఉన్న దేవదాసీ వ్యవస్థ కాదచ్చు. దాల్యబివాహాలు రావచ్చు, నరకట్న సమస్య రావచ్చు, నకి సహనగమనం వంటి క్రహరమైన అచారాలు రావచ్చు ఇవర్ని కూడా క్రీకి అస్తిత్వం లేరుంటా చేసాయి. స్రీ అంటే ఒక వారిసూ ఎవరికి కర్చన రీతిలో నారు ఉపయోగించుకునే భోగ వస్తువుగా బజాతులో అమ్మబడే లంగరి నరుకుగా వివర్ణకు లోనవుతూనే వస్తుంది. సంఘ సంస్పర్తలు, మహనుభావులు ఎంతమంది పోరాటం చేసినా వ్యవస్థ నేదికి అలాగే కొనసాగదం దురదృష్టదరం 198 కళావ్రం 'పోరంచంలో' పైన చెప్పబడిన దురాచారాలు చాగా ప్రబభినాయి. రాజారామమ్మోహన్ రాయ్ కాండి సంస్పర్తలు ఫాటిరి రూపుమావదానికి ప్రయత్నించి కొంతమేర విజయం సాధించాదు. రాని పాల్యబివాహాల కన్యాశుల్యం, వరదర్శం ముదలైనవి. మాత్రం పెనుదూతాలై ద్రీ జాతిని పీక్యుతిన్నాయి.

రక్తి కన్నా కలం గొప్పదని సమ్మిన అనేక కవులు, రచయితలు తమ కలం ద్వారా ఈ దురాదారాలపై యుద్ధం రేశారు. సాహిత్యం అనేది బలమైన మాధ్యమం అని నమ్మిన గురజాద లాంది గొప్పకవులు ఒక్కొక్క దురాదారాలపై తమి కవితా శరాలను సంధించారు. పూర్లమ్మ (చాల్యవివాహాలు), కన్యాశుల్యం (దయ్యకు అశపడి రిన్న పిల్లలను మునలివారికి ఇప్ప రెవాహం రేయదం, నేశ్చా వ్వవస్థ, వితంతువుల దుర్భర జీవితం) మొదలైనవి గురవాడ స్పృకించిన అంశాలు. పీటి ద్వారా అయిన 57ం పెజయాన్ని సాధించారు. చాల్యవివాహ నిరోధక చట్టం (శారద అల్ల్) రావదం వల్ల చాల్యవివాహాలు కొంత నిరోధించబడ్రాయి రాని అదే కాలంలో వేళ్ళునిన మరొక సమస్య చరకట్నం ధనం తీసుకొని పిల్ల నివ్వదం కన్యాశుల్యం అయితే ధనం ఇస్త పిల్లనిపోదం వరకట్నం సందిధిలోనూ చాధితురాలు డ్రీయే. నంతలో పశువులను వేలం వేసినట్న వరుని తల్లదండులు రచ్చులు శీసుకొన వరునికి వివాహం చేసేవారు. అందుకే దానిని వరవిక్రయం అన్నారు. వరకట్నం ఇవ్వరేళి స్టేల రెండిందులు రచ్చులు గురి అయ్యవారు పీటలపై పెళ్ళిళ్ళు కూడా ఆగిపోయే పరిష్టితి. అలాంటి పరిషితులలో కాళ్ళకూరి నారాయజరావాగారి వరవిక్రయం అనే నాటకం రాశారు. పొరాజిక నాటకాలు భాగా ప్రచారంలో ఉన్న కాలంలో సరహద కన్యాతుల్లు. నారాయజరావగారు వరవికుడుం అనే సాంఘక నాటకాలను రచింది లల్ల ప్రతితుపైటారు. ఈ రెందు నాటకాలు తర్చాత కాలంలో అంధ చేతం అంతటా విరివిగా పుదర్శం చబడ్నాయి. దలనగెడ్రులుగా కూడా నిర్మించబద్దాయి.

వరవిడ్రయం పది అంకాల నాటకం. వరకట్నం కేంద్రంగా ఈ నాటకం నరుమ్తంది. ఈ నాటకంలో ప్రవహిత్రమరావ కథానాయకుడు ఒక కుటుంబపెద్ద. ఎవరి నమన్యల పట్ల వారే ఉద్యమించారి. ఎవరి వస్తారని ఎదురు చూదదం ఉప్ప «సే సందేశం నేపథ్యంగా ఈ నాటకం నదున్నంది. వరకట్న నమస్య గ్రులకు సంబంధించినది రాజట్టి వారి సమస్యను వారే పరిష్యరించుకోవాలని కమల పాత్ర డార్జారా రచయిత నిరూపిస్తారు. ఈ నాటకంలో ధర్యానికి నాటగు పాదాలు అని చెప్పినట్లగా

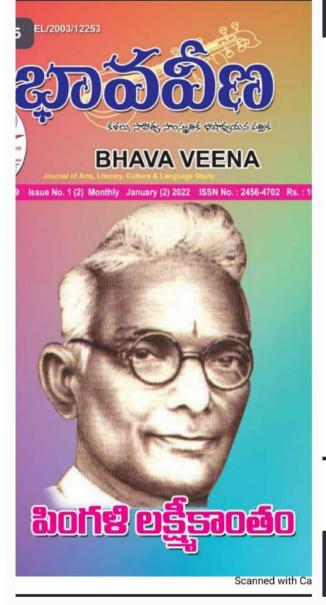


Name of the Faculty:Dr. D.Swaroopa Name of the Department: Telugu









← VALASAKA...LO ARTICLE 🔗 🖸 🗄

వలస కథల్లో ... స్త్రీ పాత్రల చిత్రణ

శ్రీమతి దూలం స్వాహన తెలుగు అధ్యాపకురాలు, దీఎసెదబ్యుతరదిసి, వరంగల్ ఈస్ట్. పరిశోధకురాలు కాకతీయ విశ్వవిద్యాలయం, తెలుగు విధాగం

మానపుడు కూడు గూడు గుర్తకోసం తేల ఏక్పుగా ప్రస్తానం కానసాగిస్తున్నాడు. నిజానికి మనదేశంలో కులవృత్తులకో వేల ఎక్పుగా పురి గ్రామం స్వారంజనతో కొనసాగుతుంది. పారిశామిక విధానంలో కుల వృత్తులు కూరిపోయాయి. జీవనం భారమై, జీవితం దుర్శరమై ఐతుపరెదుపు కోసం, జుక్కెకు జువుకోసం కడుపై దేతదివ్వకొని, కన్నవాళ్ళువు, కట్టుకున్న వాళ్ళను విడుపరోక మనను చంపుకొని పుట్టేదు దుజాన్ని నెత్రిమీద పెట్టుకొని చలనలు పెళ్ళుతున్నాడు. తెలంగాణ పల్లెల్లో అర్ధికంగా చితికిపోయిన ప్రతీ దుబవతీయవకులకు ముందుగా గుర్తుకు వర్చేది. గల్చి దేశమే.

పెద్దింది అశోక్ కుమార్ గారు రాసిన పుర్మలు కథలో వెంకెట్ అనే వ్యక్తి తన భార్య పిర్లలను వదిరి తాను మాథ్రం బిరేశాల్లే సంపాదనకోసం వెళ్ళినప్పురు అశని భార్య అయిన సుకాత ఒంటరిగా ఉంటూ కుటుంబంలోని అశ్ర. తోటికోచక్కు ఇంది పక్తువాళ్ళు. ఊర్లోనివ్వక్తులు మాట్రాజే ఎద్దిపారువు మాటలు, తిట్లు పిని ఎంతగానో కుమిలిపోతుంది. బొంత అందంగా, అకర్మటీయంగా, తెలువుగోటగా మాట్రాజ్ వ్యధావం, మరుసులో ఉన్న స్ట్రీ అయిసుమా ఆశర పురుషుల వలన సంఘర్మణకు లోనపుతుంది సుకాత. పక్కలి క్రీస్తిల్ ఎంకుందిగా, మార్లుమా వృమారించిన కూడ సూడిపోటి మాటలతో వెళ్తిరించేవారు. ఎవరైనా పిద్రినా తిలిసువుడు జుర్గికితోయినా, అప్పటిలిగితే ఇప్పటేనపోయినా మందిగా అలంకరించుకున్నా, తర్లోని వ్యక్తులు విదేశాలకు వెళ్ళిన వ్యక్తి మొక్క భార్యపర్ధికించి లనేక రకాలుగా మందిగా అలంకరించుకున్నా, తర్లోని వ్యక్తులు విదేశాలకు వెళ్ళిన వ్యక్తి మానికుంగా హిరుగు సోండుకుండి పార్గలు పడేసందర్యంలోని జెంకులు వెంటున్న పుర్గాతు లేనురుకు లోనుతూ చానికుంగా సంగుకు

భర్త మాట్లో పోయాలిని ఆగుతరేదు పూటకో రీరకల్లి ఊర్ను తెరుగుతుంది బొచ్చులెక్క కయారపుతుంది. పర్చిపోయే వాళ్ళతో దిరవకుండా ముచ్చటబాడుతుంది. చేతిలో నాలుగం పైనలు కవందగానే కళ్ళు వెత్తిరెప్పినుం.

ఇంతకు ముందు వీత్రిరి దాని లెక్క ఉండేది ఇప్పుడు కళ్ళకు అద్దాలు.... కాళ్ళకు చెప్పులు వచ్చినయి

నీకేందిమహారాజీవి చనాపాటనా కూనుండి తినుదే నాయే అని రకరఠాలుగా మాట్లాడుతుంటుంటారు. ఈ

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Studies on physicochemical variations of Budharam Lake in relation to seasonal variations and its productivity

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Abstract

Water parameters and plankton diversity are very important for determining of fish production. The specific status of limnological characteristics and diversity of plankton in lake Budhram lake have been studied through seasonal surveys in two annual cycles 2015 -16 and 2016 - 17. In the present study, water samples were collected from different locations of Lake Budhram, Mulugu district Telangana state, for physico- chemical analysis. The laboratory test of the collected water samples were performed for analysis of various parameters such as pH, Temperature, Total dissolved solids, Dissolved oxygen, Alkalinity, Total hardness, Chloride, phosphorus, BOD and COD the methods employed for the analysis as per standard methods recommended by APHA, WHO, ICMR. The obtained values are compared with the standard limits. The present study was intended to evaluate the seasonal variation on physico-chemical parameter and their relationship with plankton community of Budhram Lake. The nutrients dynamic of Budharam Lake exhibit considerable seasonal variation due to the rainfall and nutrient utilization of autotrophs. The phytoplankton groups are Chlorophyceae, Cyanophyceae, and Euglenophyceae. The highest plankton density was recorded during summer season while lower in monsoon season. The zooplankton groups are Rorifera, Cladocera, Copepoda, Ostracoda. Chlorophyceae appeared as the dominant group of phytoplankton in Lake Budharam during both the study years. During the first year of study period this group exhibited maximum density of (3221 org/L) followed by Bacillariophycea (2664 org/ L) Cyanophyceae (1435 org/ l) and Euglenophyceae (216 org/ l). Similarly chlorophyceae also registered maximum density of (3325 org/l) during second year period followed by Bacillariophyceae (2806org/L) Cyanophycea (1520 org/1), and Euglenophyceae (227 org/1). Annual densities of zooplanktons during the first year Rotifera appeared as dominant group of zooplanktons with higher density (1283 org/l) during the second year of the study period followed by cladocera (579org/l) copepoda (602 org/1) and ostracoda (268 org/1). During the first year of the study period Rotifera again contributed maximum density (1270 org/1) followed by copepod (539 org/ I) cladocera (485 org/L) and ostracoda (161org/L). The minimum number of zoo planktons and was recorded in the rainy. Phytoplankton and zooplanktons have a nominal positive relationship. Phytoplankton was increased or decreased with the relation with zooplanktons.

Keywords: Lake Budharam, physico-chemical parameters, zooplanktons, phytoplanktons

Introduction

Water quality is very important in fish farming as poor quality water can affect the health and growth of the fish. It is most important that farmers pay attention to the water chemical and physical factors. Water may be considered as a Binder or matrix in which the dissolved gases inorganic substances minerals as well as organic matter prevails. In addition to dissolve substance the water matrix gives support to microorganism, plants and animal life forms and provides, a medium for a chemical exchange among these populations. The maintenance of good water quality is essential for both survival and optimum growth of culture organisms. The levels of metabolites in pond water that can have an adverse effect on growth or generally and order of magnitude lower than those tolerated by Fishes /prawns/shrimps for survival. Good water quality is characterized by adequate. Oxygen and Limited levels of metabolites each water quality parameters interacts with the influences other parameters, sometimes in complex ways. Concentration of any one parameter that would be harmless in one situation can be toxic in another. For example when aeriation, and the gas

degassing problems occur carbon dioxide levels will generally become high while at the same time dissolved oxygen levels become low the result of this particular situation is that not only is there less oxygen available to the fish that fish are less able to use the oxygen and that is available the high carbon dioxide level of the water affects the fishes blood capacity to transport oxygen, aggravating the the stress imposed by low dissolved oxygen levels. Another excellent example of the complex interaction among water quality element is the relationship between the pH and toxicity of ammonia. The relationship between water quality factors and their effect on fish growth rate and helps is complicated for example, fish lack the means to control their body temperature and maintain it is independent of the environment. Environmental temperature changes affect the fishes rate of biochemical reactions, which leads to different metabolic and oxygen consumption rates. At the lower ranges of the species tolerable temperature range these rates decrease. As water temperature increase, fish became more active and consume more dissolved oxygen, while simultaneously



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A Study on Various Home-Based Strategies to Strengthen Immunity Against Covid-19

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Abstract: The immune system plays a central role in protecting against infection, but due to its complexity and therefore the multiple ways during which it deals with viruses, the best advice is to consume a healthy, diverse, and well-balanced diet which can provide the multirents required to inderstand a healthy gut microbiome, which can also benefit the system. The nutrients we get from food especially plant-based food like fruits, vegetables, herds, and spices are essential to keeping our system functioning properly. For instance, research shows that spices like Clove, Oregano, thyme, cinnamon, and cumin contain antiviral and untimicrobial properties. The increased intake of turmerie, coriander, and gartic also improve our system, they have strong antloxidants and antiviral properties. Furthermore the zinc, folate iron, Selenium, copper, and vitamins A. C. E., B6, and B12 we get from food or helps in the system. We should maintain a healthy lifestryle of exercise, meditation, and regular sleep. Adequate sleep will help to support immune functioning. Simply going for a daily stroll or sneaking during a Yoga class a couple of times a week will keep our body physically fit and help the system. However good food practices are always recommended by the subsequent them animize the danger of contamination maintain proper hygiene, wash vegetables and fruits before cating wash rinse, and distificet objects and surfaces whenever before and after use, keep cooked foods to stop harmful microbes. Consume unsaturated fats found in bits, nuts, soy, vegetable oil canola, vegetable oil, and sundiwer instead of saturated fats found in bits, russ, soy, segetable oil canola, vegetable oil, and sundiwer instead of saturated fats found in butter fatty, meat ecconnat, and Palm oils, cheese, ghee, and cream. We should drink 8 to 10 glasses of water every day. To maintain effective stress reduction techniques keep our system healthy. Avoid alcohol and eignarette smoking also help our system.

Keywords: Immune system, antoxidants, anti-viral properties.

L INTRODUCTION

The immune system consists of organs, cells, tissues, and proteins. Together, these perform bodily processes that repel pathogens, which are the viruses, bacteria, and foreign bodies that cause infection or disease. When the system comes into contact with a pathogen, it triggers an immune reaction. The system releases antibodies, which attach to antigens or the pathogens and kill them. Incorporating specific foods into the diet may strengthen a person's immune reaction. Read on to get 15 foods that boost the system. The immune reaction is the interval of defense, after physical barriers just the immune system is the body's defense mechanism. It forms the second line of defense, after physical barriers just

The immune system is the body's defense mechanism. It forms the second line of defense, after physical barriers just like the skin and therefore the mucous membranes. It is located throughout the body and includes the thymus, the spleen, bone marrow, and a lunge network of lymph nodes. It is made from many cells, proteins, tissues, and organs. The main function of the system can cause symptoms like frequent sickness, allergies, fatigue, digestive issues, delayed growth, and slow development. A low immune function is often thanks to emotional stress, sleep deprivation, vitamin deficiencies, lack of workout, overeaposure to harmfal ultraviolet (UV) sunrays, excessive use of antibiotics, exposure to environmental toxins, poor dietary habis, and inadequate hygiene. Boosting the immune system is possible through lifestyle changes and some simple home remedies as recommended by Ayurveda. The metabolic activity of immane cells is enhanced after a viral infection, such as the one driven by COVID-19. Dietary approaches that support a healthy got microbiome can benefit the system and ensure an lionest nutritional status that might help the host affect pathogens. Although the system is usually working to stop pathogens from invading the body, also as eliminating those pathogens and generating an immunological memory, the metabolic activity of immane erely is enhanced following a virus infection like COVID-19. That heightened activity is anid a better dermund of energy and nutrients, which come from diet, to satisfy the immune cells' requirements. In a new comprehensive review, Prof. Philip Calder from the University of Southampton provides an andate on the role of nutrition in supporting the system as a part of the present fight against COVID-19.

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O VMS RESEARCH FOUNDATION WWW.licbat.in IMPORTANCE ,THREATS AND CONSERVATION STRATEGIES OF TELANGANA STATE BIRD, PALAPITTA.

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ABSTRACT:

Birds are excellent indicators of the state of our natural world. This year's State of India's Birds report, which was recently released, highlights 942 bird species that need conservation priority. Of these, 178 classified as High Conservation Priority and 14 species. Surprisingly the Indian Roller, or called the palapitta in Telugu or the Blue Jay. has been recommended for International Union for Conservation of Nature (JUCN) Red List reassesament. The palapitta (also known as the Blue Jaylis Telangana's state bird and sighting it on Dasara day is considered asspicious. People believe it as auspicious to see Palapitta (Coracias benghalensis) on Dussehra day. Poachers and traders take advantage of the common belief that they capture the birds staring a month before the festival. They tie their legs with thread, trim their wings and stick them with glue to stop them from flying. More cruelly they do not even feed these birds till the day of Dusshers and kept in small cages for public viewing. Even though they leave them after Dussehra, most of these birds die in captivity or immediately after being released. The State Animal Welfare Board and the Telangana State Biodiversity Board along with Humane Society International (HSI) are trying to end this cruelty Telangana government has decided to take hold step to save the state bird, Palapitta. The government had directed temple managements not to entertain display of Palapittas during Duashers on the temple premises or environs. They clarified that these hirds are protected under Schedule IV of the Wildlife Protection Act, 1972 and any violation of this protection will attract a penalty of Rs. 25,000 and up to three years of imprisonment. The State of India's Hirds report is a periodic assessment of the distribution range, trends in abundance, and conservation status for most of the bird species in the country. This comprehensive, national-level assessment report based on observations, observation trends and distribution by over 30,000 birdwatchers from across the country points the way towards the conservation needs of India's birds. Ashwin Viswarathan of Benguluru-hased Nature Conservation Foundation says, "Rapid reduction of grasslands, landscapes and a natural ecosystem is the reason for the decline in the number of Indian rollers. Rollers eat rodents and small insects which means these too are on a sharp decline. The birds have a great association with the grasslands where cown and goats graze. With the steady approach of planting trees, we are destroying the grazing lands and the ecosystem."

Keywords:- Biodiversity, Conservation, Ecosystem. INTRODUCTION :

The Indian roller (Coracias benghalensis) is a bird of the family Coraciidae, It is 30–34 cm (12– 13 in) long with a wingspan of 65–74 cm (26– 29 in) and weighs 166–176 g (5,9–6.2 oz). The face and throat are pinkish, the head and back are brown, with blue on the rump and contrasting light and dark blue on the wings and tail. The bright blue markings on the wings and tail. The bright blue markings on the wing are prominent in flight. The sexes are similar in appearance. Two subspecies are recognised. Indian rollers are distributed across Asia, from Iraq and the United Arab Emirates in southwestern Asia through the Indian Subcontinent, including Sri Lanka, Lakshadweep islands, and the Maldive Ialands. The main habitat of these birds includes cultivated areas, thin forests, and

grassland. They can also be found in parks and cities.



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Abstract

Biological control is a method of restricting effects of harmful animals, pathogens and plants using other useful organisms, e.g. microorganisms, insects and plants that inhibit the harmful organisms. The method takes advantage of basic ecological interactions between organisms, such as predation, parasitism, pathogenicity and competition. Today, biological control is used primarily for controlling pests in crop cultivation. Advantages of biological control are that no artificial substances are added, and that pathogens / animals that develop resistance against biological control agents are rare. Biological control is an important component of integrated pest management. Biological control is the beneficial action of parasites, pathogens, and predators in managing pests and their damage. Biocontrol provided by these living organisms, collectively called "natural enemies," is especially important for reducing the numbers of pest insects and mites. Use of natural enemies for biological control of rangeland and wild land weeds (e.g., Klamath weed, St. Johnswort) is also effective. Plant pathogens, nematodes, and vertebrates also have many natural enemies, but this biological control is often harder to recognize, less well understood, and/or more difficult to manage. Conservation, augmentation, and classical biological control are tactics for harnessing natural enemies' benefits. Biocontrol (for vertebrates in particular, the manipulation of habitat conditions) should not be employed a priori , because, if done improperly, the treatment can create more problems than it cures. In fact, it can cause more problems than the use of poisons. With repeated poisoning of vertebrate pests there is concern about the possibility of subtle and undesirable physiological and behavioral responses, or of carcinogenic and mutagenic effects on both the target species and on non target populations. However, when a habitat is modified, there is little doubt but what it will produce more pronounced interactions with other species of animals than would usually result from population reductions caused by either chemosterilents or toxicants. Observations indicate that natural biomes have a well-established , stable, animal-soil-vegetation complex which usually is not delicately balanced. A natural change (e.g., by disease) or man-caused change (e.g., by shooting), in the density of a native species of browsing, grazing, seed-eating, or predatory mammal does not precipitate a dramatic "balance-of-nature" type chain reaction of responses by other components of the biological community.. There are two broad approaches to reducing the density of troublesome populations of rodents.



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Studies on Fish Fauna of Certain Lakes in Relation to Seasonal Variations of their Productivity

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Abstruct: Water physico chemical parameters and planktons density are an essential factors for fish productivity. In Lake Jakaram have been studied through seasonal surveys in two years 2015-16 and 2016-17. The present study was aimed to assess the seasonal variation on physico-chemical parameters such as temperature, pH, alkalinity, dissolved oxygen, BOD and COD and their relationship variation of physico-centrating parameters such as competance, pri, auxiliary, successed experience of the success and the experiment of the experiment of autointic physico chemical parameters showed vignificant difference among the seasons. The statistical analysis of physico-chemical parameters showed vignificant difference among the seasons. The statistical analysis of physico-chemical parameters showed variation, relatively high temperature, high value of dissolved oxygen and highest production range of alkalinity were observed which are favourable factors for the production of air breathing fishes. The maximum of temperature was recorded during summer season it showed a significant inverse relationship with dissolved oxygen positive relationship with PH. Dissolved oxygen shows a negative relation with alkalinity, total hardness, nitrate, phosphate, chlorides. The correlation analysis exposed that physico-chemical parameter and nutrients are effective dynamics to control the seasonal variations on plankton diversity therefore the present study reveals that Lake Jakaram has rich in plant and community due to presence of high nutrient content and consisting appropriate environmental factor zooplanktons (species) in lake Jakaram during the study period holds a key position in the food web as it was directly related to the consumption of organic energy produced by phytoplanktonic photosynthesis and then by transforming it to the higher trophic levels of heterotrophs such as fish. Some Zoo plankton population was decreased due to unfavourable condition. Plankton diversity and physico- chemical parameters of water or important criteria for evaluating the mitability of water for culture practices. Therefore, structure of different fish food organisms assumes greater significance to fishery management. Seasonal variation of the pla population of Jakuram Lake Mulugu district was carried out during June 2015 to may 2017, phytoplankton density was slightly higher during summer. Chlorophyceae appeared as the dominant group of phytoplankton in Lake Jakaram during both the study years. During the first year of study period this group exhibited maximum density of (2851 org/L) followed by Gynophycea (1805 org/L) Bacillariophyceae (2726 org/1) and Euglenophyceae (416 org/1). Similarly chlorophyceae also registered maximum density of (3168 org/l) during second year period followed by Gynophycene(1516 org/L) Bacillariophycene (2687 org/ l),and euglenophycene(180 org/ l). Annual densities of znoplanktons during the first year copepoda appeared as dominant group of znoplanktons with higher density (7619 org/ l) during the first year of the study period followed by cladocera(3775 org/ l). Rotiferu (4230 org/ l) and ostracoda (2202 org/l). During the second year of the study period copepod again contributed maximum density (9547 org/l) followed by Rotlfera (4614 org/l) cladacera (3498 org/L and outracoda (2226 org/L). The minimum number of zoo planktons and was recorded in the rainy. Phytoplankton and zooplanktous have a nominal positive relationship. Phytoplankton was increased or decreased with the relation with zooplanktons

Keywords: Lake Jakaram, physico chemical parameters, phytoplanktons, assoplanktons

1. Introduction

Water is essential natural resources for all living organisms, whether unicellular or multicellular, Biological production in any aquatic body gives direct correlation with its physicochemical status, which can be used as trophic status and fisheries resources potential (Jhingran, et al.1969). Life in aquatic environment is largely governed by physico chemical characteristics and their stability. The maintenance of a healthy aquatic ecosystem is dependent on the physico chemical properties of water and biological activity. The polluted state of water resources has led to a steady decline in an aquatic productivity. Therefore, linnological investigation is needed. So that monitoring of the lake water is necessary step to mark the trend pattern of pollutants and their effect on living organisms.

In freshwater system the zooplankton forms are important group and constitute basic link of the food chain, planktons are very sensitive to the environment they live and any alternation in the environment leads to changes in the environment in the plankton communities in terms of tolerance abundance, diversity and dominance in the habitat (Mathivonam, 2007. The plankton study is very useful tool for the assessment of water quality in any type of water body and also contributes to an understanding of the basic nature and general economy of the water body. Plankton being the primary producer from the lowest trophic level in the food chain of freshwater ecosystem and plays a key role in fish culture. The density and diversity of the plankton are greatly influenced by the different physico chemical parameters of water (wet zel. 1975).

The maintenance of a healthy aquatic ecosystem is dependent on the physico-chemical properties of water and biological activity. Further water condition play a very important role in the production of a breathing fishes. The polluted state of water resources has led to steady decline in aquatic productivity. Therefore, limnological investigation is useded. The maintenance of healthy aquatic ecosystem is dependent on the physico chemical properties of water. So that monitoring of the lake water is necessary step to mark the trend pattern of pollutants and their effect on living organisms. Aquatic biodiversity, is threatened primary by

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A Study on Various Home-Based Strategies to Strengthen Immunity Against Covid-19

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Abstract: The immune system plays a central role in protecting against infection, but due to its complexity and therefore the multiple ways during which it deals with viruses, the best advice is to consume a healthy, diverse, and well-balanced diet which can provide the nutrients required to understand a healthy gut microbiome, which can provide the nutrients required to understand a healthy gut microbiome, which can provide the nutrients required to understand a healthy gut microbiome, which can provide the nutrients required to understand a healthy gut microbiome, which can also benefit the system. The nutrients we get from food especially plant-based food like fruits, vegetables, herbs, and spices are essential to keeping our system functioning properly. For instance, research shows that antiviral properties. Furthermore the zinc, folate iron, Selenium, comper, and vitamins, A. C. E. B6, and B12 we get from food or belps in the system. We should maintain a healthy leftstyle of exercise, meditation, and regular sleep. Adequate sleep will help to support immune functioning. Simply going for a daily stroll or sneaking during a Yoga class a couple of times a week will keep our body physically fit and help the system of surfaces whenever before and after use, keep cooked foods to stop harmful miceubes. Consume unsaturated fats found in fish, nuts, soy, vegetable oil canola, vegetable oil, and sunflower instead of saturated fats found in fish, nuts, soy, vegetable oil canola, vegetable oil, and sunflower instead of saturated fats found in butter fatty, meat coconar, and Palm oils, cheese, ghee, and cream. We should drink 8 to 10 glasses of water every day. To maintain effective stress reduction techniques keep our system healthy. Avoid alcohol and eigarette smoking also help our system.

Keywords: Immune system, antoxidants, anti-viral properties.

L INTRODUCTION

The immune system consists of organs, cells, tissues, and proteins. Together, these perform bodily processes that repel pathogens, which are the viruses, bacteria, and foreign bodies that cause infection or disease. When the system comes into contact with a pathogen, it triggers an immune reaction. The system releases antibodies, which attach to antigens on the pathogens and kill them. Incorporating specific foods into the diet may strengthen a person's immune reaction. Read on to get 15 foods that boost the system.

The immune system is the body's defense mechanism. It forms the second line of defense, after physical barriers just like the skin and therefore the mucous membranes. It is located throughout the body and includes the thymus, the pleen, bone marrow, and a huge network of lymph nodes. It is made from many cells, proteins, tissues, and organs. The main function of the system is to stop and fight infection. A good system is important for the correct functioning of the body. A weakened system can cause symptoms like frequent sickness, allergies, fatigue, digestive issues, delayed growth, and slow development. A low immune function is often thanks to emotional stress, sleep deprivation, vitamin deficiencies, lack of workout, overeneposure to harmful ultraviolet (UV) sumays, excessive use of antibiotics, exposure to environmental toxins, poor distary habits, and inadequate hygiene. Boosting the immune system is possible through lifestyle charges and some simple home remedies as recommended by Ayurevda. The metabolic activity of immane cells is enhanced after a viral infection, such as the one driven by COVID-19. Dietary approaches that support is healby got microbiome can benefit the system and ensure an honest nutritional status that might help the body host affect pathogens. Although the system is usually working to stop pathogens from invading the body, also as eliminating those pathogens and generating an immunological memory, the metabolic activity of immane cell types is enhanced following a virus infection like (COVID-19. That beightened activity is simil a better dermand of enverge and thread derivals, where derivers, where down from the University of Southampton provides an update on the role of nutrition in supporting the system as a part of the present fight against COVID-19.

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IMPACT OF COVID-19 ON ENVIRONMENTAL CLIMATE, PEOPLE LIVELIHOOD, AND THEIR HEALTH

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Covid-19 pandemic shows many impacts on the environment are observed or could also be anticipated because the pandemic has limited to ourEnvironmic activities. consumption and movement, pollutant emissions and natural resources use have slowed, and therefore the rate of environmental change has fallen in most areas. But CO2 concentration within the atmosphere still rises and there's the increased use of plastics, notably in packing Activities to conserve biodiversity are restricted resulting in a rise in illegal waste dumping hunting and logging, for example. As people lose their livelihoods, increased poverty will likely cause more people to show to unsustainable harvesting of natural resources. The lockdown has led to the postponement of important negotiations on global environmental governance within the expected global climate change and biodiversity "super year'. The lockdown has several years affected life and livelihood across rural India. Agriculture and allied sectors employ quite half the workforce within the country A majority of India's farmers (85%) are small and marginal farmers with but two hectares of land, quite 9 million active fishers directly depend



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Influence of Brechtian Theory on Girish Karnad's Dramas

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Abstract:

People often say that drama is the most important part of sacred books. The goal of theatre has been to entertain and please the audience since the beginning of time. Plays have been written by both Indian and Western playwrights to teach and entertain. But how do these plays change the people who watch them? Aristotle is the most well-known theorist who says that the purpose of drama is "catharsis," but many others have also argued for dramatic ends. This study looks at how Brechtian theory, which is different from Aristotelian principles, affected Girish Karnad's plays Hayavadana and Yayati. From a postcolonial point of view, Bertolt Brecht's "Epic Theatre," which describes the purpose of theatre as "anti-cathartic," is more important than Aristotle's "mimetic theory." He says that the purpose of drama is not just to make people feel sad or scared, but also to make them think about where the play came from and what it means. Karnad, who is influenced by Brechtian theatre, changes it to fit the Indian culture and adds new things to it. This paper looks at how Girish Karnad updated old myths and how Brechtian ideas affected the plays listed above.

Keywords: Brechtian theory, Hayavadana, Yayati, Aristotle's mimetic theory, Karnad, theatre etc.,

The Indian English theatre of the 20th century is a mix of eastern and western ideas. It is a result of the British Empire and western education. Great dramatists like Nissim Ezekiel, Asif Currimbhoy, Mahesh Dattani, Vijay Tendukar, and Girish Karnad gave Indian play a new lease on life. All of these playwrights have made important contributions to modern culture by looking at the myths and history of Indian society. Girish Karnad, one of these great playwrights, is a multitalented artist who has done well as an actor, director, poet, screenwriter, and translator, as well as a writer. He started to develop his dramatic range during a time of direct conflict between the country's cultural past and its colonial past, between the appeal of Western ways of thinking and our own traditions, and between the different futures that became

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ISSN 2319-829X Humanities and Social Science Studies, Vol. 12, Issue 2, No. 15, July – December: 2023 INDIAN'S NEW EDUCATION POLICY 2020: AN ANALYSIS

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Abstract:

Education is the backbone for any nation's development. Education is a vital and powerful weapon to eradicate socio-economical hindrances in the society. India has witnessed a challenging scenario during the recent pandemic times. Many children were deprived of minimal education when Covid 19 struck across the nation. During this time came new education policy 2020 that brought with it some promising ideas as well as challenging ones. After a span of 34 years the Indian Government has proposed NEP 2020 that happens to be the third amendment in the education policy. Generally, any education system must prepare their students future ready and employable so that they can achieve their goals at individual level, then at community level, next at nation level which in turn leads to the development of a strong nation. The New Education Policy 2020 has proposed to replace 10+2 model of curriculum with the new 5+3+3+4 model system that is supposed to implemented. This paper talks about the promising benefits of the NEP 2020, its challenges and gives a few recommendations.

Introduction:

India is known as land of education, values and ethics from time immemorial. Indian education system has seen a sea change from Gurukul system that existed in ancient India to British education system. Many a times changes, modifications were being made and accepted by the education system. The Education System under NEP 2020 is fixed by 20230. The old curriculum 10+2 model is changed to 5+3+3+4 in the NEP 2020. To bring about the new model into force both the central and state governments will invest 6 % of country's GDP towards the development of education sector.

Four Stages in New Education Policy 20220

The NEP 2020 is divided into four phases 5+3+3+4, this model is made mandatory to follow by all the government and non-government educational institutions across the country.

What are these four stages?

- 1. Foundation Stage
- 2. Preparatory Stage
- 3. Middle Stage
- 4. Secondary Stage
- Foundation Stage

This stage is fixed for 5 years. The children between 3 to 5 years fall under this stage, in which 3 years of pre-school education is imparted in Anganwadi. In class 1, 2 language skills are enhanced and these skills are evaluated and focused in the development.

Preparatory Stage

This stage is fixed for 3 years. Age group of children between 8 to 11 years come under this stage. During this stage students are given special focus on strengthening scientific and mathematical skills. Children are exposed to arts, science, mathematics, etc through various experiments. At the same time knowledge on regional language is given importance and development in this area is focused. **Middle Stage**

This stage is fixed for 3 years. Children fron 6^{th} to 8^{th} class fall under this stage. They are given knowledge especially subject-based is taught along with computer coding classes. During this stage, children are given choice of vocational internships and vocational testing that paves way to enhance inculcate employability skills.



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Themes and Techniques in James Joyce's Clay

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Abstract

James Joyce, a prolific Irish writer of his age. 'Clay' from Dubliner is known for its varied themes and techniques. It renders captivating opportunities for the readers to present his/her own perception of symbolism to 'Clay'. Joyce has displayed a double level of symbolism structure which he explicitly managed to handle paradoxical symbolic element simultaneously. The title 'Clay' itself has a symbolic meaning – in the human world it has less worth but this unworthy element has the capacity to mould to any given shape. Maria, the protagonist is a symbolic representation of Clay at one level and Mother Ireland at another level. Themes of poverty, triggered social relationships are shown through the technique of symbolism.

Keywords: Symbolism, Maria, Themes, Techniques, Clay

Introduction

Symbolism as a Technique in clay



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A Critical Examination of the Scientific Significance of Roopa Pai's *The Gita for Children* in the Context of Contemporary Living Seeking Answers to Post-Pandemic State of Risks and Uncertainties Flora Maria Bandari Department of English, GITAM, Hyderabad

Article History	Abstract
Received: 12 July 2023 Revised: 10 September 2023	Roopa Pai's The Gita for Children retells the Bhagavad Gita, an ancient text from Hindu Philosophy. One key aspect to consider is
Accepted:15 Oct2023	the current post-pandemic state of uncertainties. The global health crisis has disrupted our lives, instilling fear and raising existential questions. Through a critical lens, this paper explores how Pai's The Gita for Children addresses these concerns and provides valuable insights that help find meaning in an uncertain world. This paper analyses how the teachings and principles of the
	Bhagavad Gita presented in the book resonate with scientific perspectives and contribute to readers' understanding of contemporary life. This paper explores Pai's writing on four specific subjects. These categories are the central concepts of the
	Bhagavad Gita - 1. The spiritual Notion of 'Atman' (the Soul): Law of Conservation of Matter, 2. Process of 'Gnana' (Calculative Knowledge): the Theory of Evolution, 3. Analysing 'Krodha' (Anger): The Theory of Anger and Anger Management, and 4.
	Importance of 'Karma' (Path of Action): Newton's Third Law of Motion. By scrutinizing the scientific underpinnings of these four subjects, this study contributes to a better understanding of the potential value of the Bhagavad Gita as a source of inspiration for solving real-world problems. The interconnection of the selected theories with the psychological and metaphysical essence of human
	life is revealed through the critical evaluation of Pai's selected narrative.
CC License CC-BY-NC-SA 4.0	Keywords: Bhagavad Gita, Lord Krishna, Arjuna, Conversation, Conservation of Matter, Atman, Evolution, Gnana, Anger, Krodha, Newton's Law, Karma

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