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Patent Search

Invention Title	MACHINE LEARNING BASED APPROACH TO STUDY THE IMPACT OF PROBIOTICS AND TOXINS ON INTESTINAL CELL VIABILITY IN ANIMALS
Publication Number	01/2024
Publication Date	05/01/2024
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Application Number	202321078054
Application Filing Date	17/11/2023
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Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0020000000, H04W0004029000, G06K0009620000, H04L0041160000, G01N0015140000
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Abstract:

Machine learning based approach to study the impact of probiotics and toxins on intestinal cell viability in animals is the proposed invention. The proposed invention focuses on studying the intestinal cell viability in animals. The invention focuses on analyzing the parameters of impact of probiotics and toxins in animals using algorithms of Machine learning.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] Machine learning (ML) is a subfield of artificial intelligence (AI). ML uses algorithms trained on data sets to create models that enable machines to perform tasks that would otherwise only be possible for humans. Machine learning uses algorithms to analyse large amounts of data, learn from the insights, and then make informed decisions.

[0003] A number of different types of animal intestinal cell viability analysis systems that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.

[0004] Viability of Probiotic Microorganisms and the Effect of Their Addition to Fruit and Vegetable Juices: - Consumers' recent interest in healthier diets has increased demand for food products with functional properties, such as probiotics. However, most probiotic food types available on the market are of dairy origin, which limits the consumption by individuals with food intolerances and by those who adhere to strict vegan and vegetarian diets. The aim of the current review is to assess both the limitations and impacts of the addition of probiotic microorganisms to fruit, vegetable, and/or mixed juices. Thus, an integrative literature review was herein carried out. A bibliographic survey was carried out in the following databases: Lilacs, Medline, Web of Science, Scopus, and Scielo. In addition, searches for studies published in English from 2010 to 2021 were carried out, based on the following meshes: "fruit", "vegetable", "juice", and "probiotics", which were used both in combination with each other and with Boolean operators such as "AND" and "OR". Although 254 articles were initially found in the literature search, only 21 of them were selected to compose the final sample. The included studies mainly addressed microorganism viability and physicochemical analyses. Overall, fruit and/or vegetable juices can be suitable matrices used

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Patent Search

Invention Title	The Mediating Role of Artificial Intelligence in Relationship between Human Resource Management Practices and Organizational Sustainability
Publication Number	24/2023
Publication Date	16/06/2023
Publication Type	INA
Application Number	202341037176
Application Filing Date	30/05/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N 050400, G06Q 100600, G06Q 101000, G06Q 500200, G06Q 990000
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Abstract:

Aim/Purpose:- The aim of the present invention relates to investigate the mediating role of AI-HRM (Artificial Intelligence human resource management) practices and its i on organization. As it is witnessed from the research that, the AI-HRM practices will bring accuracy, speed, low cost, low risk, less time and with bias practices in the organi which facilitates for long-run survival of a firm. **Outcome:-** It is witnessed from the literatures which include various studies, the chatbot, voice recognition, NLP, OCR, Big d analytics, data analytics, expert system and other machine learning algorithms will enhance the accuracy of the HRM practices in the organization. **Research Methodology/Design/Approach:-** The present developed model purely depends up on the secondary data sources. After all thorough study of existing literature the AI-HRM been developed. **Novelty:-** The AI-HRM practices concept which is completely new in the contemporary context. **Generalization:-** The outcome of the research can be gene where need rises to assess the accuracy of the HRM practices through the AI-HRM practices in the contemporary scenario. Therefore, it is clear from the analysis that the practices will bring advancements in human resource management practices of an organization. **Type of the Research:-** The present model has been developed purely dep up on secondary data sources further it can be continued using descriptive research design.

Complete Specification

DESC: From the above figure.1 shows the relationship between three different category of variables namely, the Independent variables: The traditional HRM practices followed by the Mediating variables: the list of Artificial Intelligence Practices in human resources in the outcome variable the organizational sustainability in the long-run. The set of independent variables include: recruitment and selection, performance appraisal, training and development, industrial relations, training and development, employee welfare facilities, human resource planning, skill enhancement programs are the various independent variables followed by the list of mediating variables: chatbots to extract the information of the applicants, voice recognition for candidate recruitment and selection, training and development and to maintain relationship with the employees and for further discussions regarding employee aspects and the nature language processing, the big data which is available for HR analytical decision making in the short-run and long-run are the essential aspects and the KDD which facilitates for various decision-makings like: compensation, rewarding, performance appraisal assessment, training requirements identification and the face recognition facilitates a lot with respect to effective recruitment and selection followed by training and development and the visual screening also facilitates for recruitment and selection and training for employees and further benefitted the data analytics useful for human resource planning regarding the assessment of demand and supply forecasting and further the expert system also facilitates a lot for various sorts of functionalities which can be performed in the area of human resource management. Therefore, in all aspects the Artificial Intelligence will bring productive changes with respect to human resource management. The model can be better understood with the help of structural equation modeling. The various goodness of fit indices will give better results and will explain the strength of the model. Therefore, the model can be better understood with the help of primary data sources. After all collection of primary data sources, using SEM analysis if we can able to perform the above model can see the strength of the model. The goodness of fit indices include: GFI (goodness of fit index), AGFI (Adjusted goodness of fit index), NFI (Normed fit index) and CFI other sorts of measurements should be > 90 and the Root Mean Square (RMSFA) should be < 0.8.

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Patent Search

Invention Title	EMPLOYEE CHURN PREDICTION SYSTEM LEVERAGING ADVANCED MACHINE LEARNING ALGORITHMS
Publication Number	01/2024
Publication Date	05/01/2024
Publication Type	INA
Application Number	202341078796
Application Filing Date	20/11/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06K0009620000, G06Q0010060000, G06Q0030020000, G06N0020000000, G16H0050500000
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Abstract:

Aim/Purpose: - The aim of the present invention is to study the employee churn rate in multinational corporations. Applied various classification algorithms to analyse the data. Mainly, Logistic Regression analysis and Random forest Algorithm techniques were applied to assess the accuracy of the model. Outcome: - The outcome of the research witnessed that, the two algorithms like: Logistic Regression and Random Forest Algorithm have given accuracy like: 85% and 94%. Out of these two models the Random Forest algorithm have shown good results as it has given 94%. Research Design/Methodology/Approach: - It is a descriptive research design and the data has collected from Kaggle sources, after all applying data cleaning techniques applied classification algorithms like: Logistic Regression and Random Forest Techniques to analyze the data and its retention accuracy in the contemporary context. Novelty:- The comparative assessment of logistic regression and random forest algorithm is bit unique and novel and such research has not have been conducted earlier. Practicality:- The outcome of the research will facilitates to apply where poor employee retention is happening. Using this model can predict the employee churn rate. The model stabilizes the employees to stay back in the company for a long time period. Generalizability: - The outcome of the research can be generalized where need arises to assess the employee churn rate as the model accuracy approximately 94%. Therefore, the model shows best fit in the present scenario.

Complete Specification

DESC: Many companies face a problem: employees leaving their jobs. This is a big deal because it costs companies money and can make it harder for them to succeed. Traditional ways of figuring out why employees leave are not always great, so we're looking for a better way. The machine learning algorithms are the best ways to assess the reasons behind why employees left from the organization. Therefore, in this regard taken various parameters like: employee job satisfaction level, number of projects involved, average monthly hours, time spent in the company, work accidents, promotions from last five years are the major aspects for employee churn prediction based on this we can forecast the rate of employee churn. In this taken 5000 employees as sample from Kaggle dataset to assess reasons behind the employee's movement from the organization. The outcome of the research helps the MNC's to assess the reasons behind employees leaving from the company. Therefore, the present invention will help in various aspects to assess the employees movements. ,CLAIMS:1. By implementing a sophisticated ensemble of machine learning algorithms, can develop Employee Churn Prediction .

2. It facilitates to identify the reasons behind high degree of employee churn.
3. The Random forest technique will give better results as compared to other models.

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