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Patent Search

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Inventor

Name	Address	Country	Nat
Dr. R. Sugumar	Associate Professor, Department of CSE, FET- Jain University, Bengaluru, 562112	India	Indi
Mohaideen.A	Research Scholar, Anna University, Chennai	India	Indi
Chatakunta Praveen Kumar	Assistant Professor, Department of Computer science and engineering, Institute of Aeronautical engineering, Dundigal,Hydrabad, Telangana Pin 500043	India	Indi
Vishakha Rohit Mahamulkar	Assistant Professor, Department of First Year Engineering, Dr.D. Y. Patil Institue of Technology Pimpri, Pune 411018	India	Indi
Dr. Vinod Wamanrao Gangane	Assistant Professor/ Department Of Computer Science, Yogeshwari mahavidyalaya	India	Indi
Dhivya Ramasamy	Assistant Professor/Department of Information Technology, M.Kumarasamy College of Engineering , Karur-639113, Tamilnadu, India	India	Indi
Anthony Savio Herminio Da Piedade Fernandes	Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, Goa (403507)	India	Indi
Dr.A.Senthilkumar	Assistant Professor, Computer Science with Data Analytics Sri Ramakrishna College of Arts & Science Nava India Privu Coimbatore -06	India	Indi
Dr B Gayathri	Associate Professor, Department Of Computer Science, Bishop Heber College (Autonomous), Tiruchirapalli 620017	India	Indi
Sonam Juneja	Assistant Professor, CSE, Chandigarh University, Mohali, Punjab,140308	India	Indi
Dr Aparna Gullapelly	Associate Professor, Department of Data Science, Hyderabad Institute of Technology and Management, Hyderabad, Medchal Malkajgiri.	India	Indi
C V Lakshmi Narayana	Asst. Professor,Dept. Of CSE, Annamacharya Institute of Technology and Sciences(Autonomous)	India	Indi

Applicant

Name	Address	Country	Nat
Dr. R. Sugumar	Associate Professor, Department of CSE, FET- Jain University, Bengaluru, 562112	India	Indi
Mohaideen.A	Research Scholar, Anna University, Chennai	India	Indi
Chatakunta Praveen Kumar	Assistant Professor, Department of Computer science and engineering, Institute of Aeronautical engineering, Dundigal,Hydrabad, Telangana Pin 500043	India	Indi
Vishakha Rohit Mahamulkar	Assistant Professor, Department of First Year Engineering, Dr.D. Y. Patil Institue of Technology Pimpri, Pune 411018	India	Indi
Dr. Vinod Wamanrao Gangane	Assistant Professor/ Department Of Computer Science, Yogeshwari mahavidyalaya	India	Indi
Dhivya Ramasamy	Assistant Professor/Department of Information Technology, M.Kumarasamy College of Engineering , Karur-639113, Tamilnadu, India	India	Indi
Anthony Savio Herminio Da Piedade Fernandes	Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, Goa (403507)	India	Indi
Dr.A.Senthilkumar	Assistant Professor, Computer Science with Data Analytics Sri Ramakrishna College of Arts & Science Nava India Privu Coimbatore -06	India	Indi
Dr B Gayathri	Associate Professor, Department Of Computer Science, Bishop Heber College (Autonomous), Tiruchirapalli 620017	India	Indi
Sonam Juneja	Assistant Professor, CSE, Chandigarh University, Mohali, Punjab,140308	India	Indi
Dr Aparna Gullapelly	Associate Professor, Department of Data Science, Hyderabad Institute of Technology and Management, Hyderabad, Medchal Malkajgiri.	India	Indi
C V Lakshmi Narayana	Asst. Professor,Dept. Of CSE, Annamacharya Institute of Technology and Sciences(Autonomous)	India	Indi

Abstract:

Machine learning approaches for automating student performance predictions for enhancing university education system is the proposed invention. The proposed invent focuses on understanding the functions of enhancing education of university using algorithms of Machine Learning. The invention focuses on analyzing the parameters of Student Performance Predictions 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 field of study in artificial intelligence concerned with the development and study of statistical algorithms that can learn from data and generalize to unseen data and thus perform tasks without explicit instructions. Recently, artificial neural networks have been able to surpass many previous approaches performance. ML finds application in many fields, including natural language processing, computer vision, speech recognition, email filtering, agriculture, and medicine.
[0003]   A number of different types of student performance 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]   A Systematic Literature Review of Student' Performance Prediction Using Machine Learning Techniques: Educational Data Mining plays a critical role in advancing the learning environment by contributing state-of-the-art methods, techniques, and applications. The recent development provides valuable tools for understanding the student learning environment by exploring and utilizing educational data using machine learning and data mining techniques. Modern academic institutions operate in a highly competitive and complex environment. Analyzing performance, providing high-quality education, strategies for evaluating the students' performance, and future actions are among the prevailing challenges universities face. Student intervention plans must be implemented in these universities to overcome problems experienced the students during their studies. In this systematic review, the relevant EDM literature related to identifying student dropouts and students at risk from 2009 to 2021 is reviewed. The review results indicated that various Machine Learning (ML) techniques are used to understand and overcome the underlying challenges; predicting stude at risk and students drop out prediction. Moreover, most studies use two types of datasets: data from student colleges/university databases and online learning platform

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