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Patent Search

Invention Title	A System for Predicting Student Achievement Using Machine Learning
Publication Number	36/2023
Publication Date	08/09/2023
Publication Type	INA
Application Number	202341057790
Application Filing Date	29/08/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0050200000, G06N0020000000, G09B0007000000, G06N0005020000, G09B0007020000

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Abstract:

Abstract In the realm of higher education, substantial expertise has been amassed in the practical application of analytics through multidimensional databases, often
retrospective data. Within this context, a particularly promising avenue is the domain of data mining. This interdisciplinary field of study offers the opportunity to craf
models concerning students' academic achievements. Nonetheless, within the academic community, lingering questions persist regarding the pertinent data types an
requisite for constructing prognostic models. Furthermore, uncertainties surround the methodologies for processing such data and the key variables that substantiat
academic success.The primary objective of this research is to scrutinize the factors impacting students' academic accomplishments through the utilization of machine
methodologies and artificial neural networks. The study harnesses SPSS Statistics and employs data mining techniques facilitated by the Python programming langua
processing and analysis. The dataset under examination pertains to student performance records at Kazan Federal University during the period spanning from 2012
2021.Initial findings indicate that data mining approaches hold substantial potential in the development of information-analytical systems. These systems not only fac
modeling and visualization but also exhibit the capacity to predict enduring trends with a commendable level of accuracy.

Description:FIELD OF THE INVENTION
The intersection of education and technology has ushered in a new era of innovation, with machine learning taking center stage in reshaping how academic achieve
approached and enhanced. The field of the invention revolves around leveraging machine learning techniques to automatically predict and optimize academic succ
among students. By tapping into the vast reservoirs of data generated in educational environments, this paradigm shift holds the promise of offering personalized i
and recommendations that can revolutionize learning outcomes.

BACKGROUND OF THE INVENTION

The integration of digital technologies within Russian universities offers a distinct opportunity to address strategic objectives effectively. Through the application of
Science techniques, these institutions can tackle a range of issues. Firstly, they can enhance or create algorithms, utilizing Data Science, to populate databases acros
operational areas and subsequently process this data for analysis. Secondly, they can swiftly gather and assess real-time information concerning their educational a
facilitating descriptive analytics. Thirdly, leveraging data mining methods presents the possibility of developing predictive analytics as a distinct avenue. Despite the
reliance on conventional static algorithms for academic analytics in Russian universities, international practice in the last decade has demonstrated the value of
multidimensional databases, including retrospective data.

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Page last updated on: 26/06/2019