

Teacher Performance Prediction Using Machine Learning

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Abstract: Student performance is one of the crucial and necessary part in the educational system due to its large volumes of real-time data that cannot be analyzed manually by the humans. So, here comes machine learning that is used to easily predict the performance of the students. This job is being performed by educational data mining (EDM). EDM contains the methods that are used to discover the data in the educational environment and are used for understanding the student and their learning environment. The educational institutions are responsible and also at the same time curious to know about the performance of the students and teachers to know the current status of the functioning of the institution towards a better path. In this project, 3 models namely students assessments grades, final student performance, teachers performance. The result shows that both all the models will be showing an accurate result. A system is designed to predict the performance of the teachers based on the average of the grades of all the students, Students review and the staff members review are taken as input and the performance of the teachers is predicted accordingly. And at the same time, we will also be predicting the performance of the students based on their previous academic performance and gives suggestions.

Keywords: Students, Teachers, Association rule, Data mining, Web mining.

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