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(57) Abstract :

MACHINE LEARNING AND LEARNING ANALYTICS BASED APPROACHES FOR EVALUATING TEACHERS' PERFORMANCE IN CLASSROOMS The method for the development of the PRISMA principles, our research yielded 30 studies that were relevant to teacher education. Based on the objectives, participants, data sources, and methods utilized to improve teaching and learning activities in the research, this review examines and discusses the many ways that AI and LA are being incorporated in teacher education. Its use in education involves anticipating student performance and modifying instructional design tactics accordingly to enhance the learning process. The main goal of this research is to create a system that can forecast student performance and assist teachers in implementing remedial interventions on time to improve the performance of students who are not performing up to par. We verified the prediction by comparing it to other analogous models in order to assess the suggested machine learning model's efficacy in gauging the efficiency of teachers. After utilizing hierarchical methods and K-means to create two machine learning models, we discovered that K-means had the greatest results when it came to expressing the three clusters of negative, positive, and neutral feedback. It also demonstrated 99% accuracy when using the random forest classifier. FIG.1

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