



MOODLE PLUGIN: STUDENT PERFORMANCE PREDICTION AND CHATBOT
BLOCKS

UNDERGRADUATE THESIS

Submitted as one of the requirements to obtain
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SIMILARITY INDEX REPORT

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ABSTRACT

In the modern educational landscape, Learning Management Systems (LMS) like Moodle are essential. However, they often lack the tools for providing immediate, personalized support to students, leading to disengagement and poor performance. This project addresses this gap by developing two integrated Moodle plugins: the EIRA AI Academic Assistant (Chatbot) and the Student Performance Predictor. The Student Performance Predictor uses machine learning algorithms to analyze student activity data, proactively identifying at-risk learners before their performance declines. This allows educators to make timely, data-driven interventions. Together, these plugins create a comprehensive educational support system within the Moodle environment. The system enhances the learning experience by making it more interactive, responsive, and personalized, ultimately aiming to improve student engagement, retention, and academic success.

Keywords: Moodle, Educational Technology, Student Performance Prediction, Chatbot, Machine Learning, E-Learning, Personalized Learning.

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