

Using a Study Planner with Predictive Analytics: A Systematic Review on Exploring the Effects on Academic Performance and Time Management

TD Wijesinghe^{1#} and DVDS Abeysinghe¹

¹Department of Computer Science, Faculty of Computing, General Sir John Kotelawala Defence University, Sri Lanka

[#]38-bse-0014@kdu.ac.lk

This study examines the impact of a data-driven study planner with predictive analytics on students' academic performance and time management to find out the effect of the innovation. The study aimed to determine the effectiveness of task tracking and time management tools in improving the time management skills of students which can improve academic success. The analysis of students' performance by using predictive analytics includes examining students' academic behaviour, interaction patterns and the advantages they get from the study planner. The study also identifies the advantages and the limitations of the planner and focused on what can prevent the students from falling behind in their work by offering personalized insights and visualizations that align with the study patterns of each individual provided the required motivational support. Additionally, the study explored the role of innovative testing methods to improve academic outcomes. It provides suitable suggestions to enhance and develop study planners with new critical features.

Keywords: *study planner, predictive analytics, academic performance, time management*