

Online Student Monitoring and Evaluation System using Apriori Algorithm for Predicting Student Academic Performance

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Abstract: *The study investigates the current student monitoring and evaluation system of Saint Michael College of Caraga with the goal of easy tracking of student academic performance and progression. The research employs a mixed-methods approach through the conduct of interview and utilizing online survey questionnaire. The perspectives of young female students regarding the current system and their suggestions for improvement were examined and analyzed using descriptive statistical method such as frequency distribution, weighted mean score, and standard deviation. The key findings indicate a generally positive perception of the existing system but highlight areas for improvement including addressing technical issues, accommodating diverse learning styles, ensuring system security and privacy, and providing personalized support to students. By engaging stakeholders and incorporating diverse viewpoints from the respondents, the research output contributes to the development of a robust monitoring and evaluation system capable of optimizing academic performance assessment and enriching the educational experience. The integration of Apriori Algorithm fosters informed decision-making for attaining student's academic success.*

Keywords: Online Student Monitoring and Evaluation System, Academic Performance, Mixed-Methods Approach, Qualitative Research, Quantitative Research, Stakeholder Engagement, Educational Experience, System Optimization