PROJECT TITLE:
Computer vision based warning system of learners engagement shift in online learning platforms

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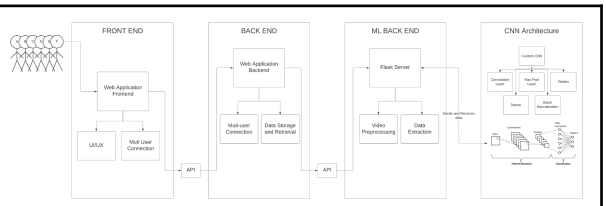
Abstract

This research analyzes previous methods used to measure user engagement, specifically in the context of student engagement in classwork. A clear procedure for assessing and understanding patterns in engagement measurement can significantly improve results. The use of multimodal methods, combining different inputs such as facial expressions and skeleton structure, can result in a more rational and robust approach. The detection of facial expressions has been demonstrated in numerous papers.

Architecture Diagram



Significance of the Project

This project aims to improve the measurement of student engagement and enhance their educational experience. A clear procedure for assessing and comprehending patterns in engagement measurement can help educators better understand student participation. The comprehensive analysis of previous approaches and use of multimodal methods can provide a more accurate and reliable measurement. The use of facial expression identification and other inputs can result in a more rational and robust measurement. The project has the potential to enhance educational practices and improve student outcomes.

Conclusion

The concluding findings of this comparison study provide valuable information, highlighting the benefits and drawbacks of each article considered. Steps can be taken to create a system that can detect student engagement effectively. The model can be improved to recognize more emotions and increase real-world accuracy. In the future, the model could be integrated into software and tested in practical settings. The study's anticipated outcome was to identify the necessary steps to improve the detection of student engagement. Pros and drawbacks were expected to be found, as they are two sides of the same coin. The study provides a foundation for future work in this area.

Conference/Journal Publication Details (If Any)

Applied to International Journal of Educational Technology in Higher Education
Status - Under Review