

The gap in quality of education between government subsidized rural schools and city-privately owned ones remains a troubling concern even in new rural regions. Students enrolled in rural schools face a multitude of challenges unlike the students enrolled in urban private institutions. The lack of quality in education in rural government schools is a result of perpetual socio-economic imbalances that have existed over years.

The goal of this doctoral dissertation will be to analyze how AI can potentially reduce the difference in education provided to students of rural government schools and private urban schools. The project aims to develop and implement AI-based personalized learning assistance tools for instructors and the respective requirements of rural schools. This research will begin by analyzing with a mixed method approach the reasons responsible for learning gaps between students from rural and urban schools. The effectiveness of these interventions will be evaluated using quantitative and qualitative feedback from students and teachers.

The expected result of the project is an adaptable AI model that can be integrated into rural education frameworks to improve educational outcomes. This project aims to increase fairness in the education system by removing location and socio-economic barriers to meaningful learning.