

# **RESEARCH PROPOSAL**

## **USING AI TO SOLVE EDUCATIONAL IMPARITY BETWEEN GOVERNMENT RUN RURAL SCHOOLS AND URBAN PRIVATE SCHOOLS**

The educational disparities between government-operated rural schools and metropolitan private institutions constitute a persistent issue, particularly in emerging rural areas. Students in rural schools encounter numerous hurdles compared to those at urban private institutions. The quality of education in rural government schools is substandard due to the persistent socioeconomic inequalities that have developed over time. The objective of this PhD thesis is to investigate the potential of AI to bridge the educational gap between students in rural government schools and those in urban private schools. The project will devise and execute AI-driven solutions aimed at personalised learning assistance for educators and the requirements of rural schools. The study will start by evaluating the causes causing learning disparities between pupils in rural and urban schools using a combination of methods approach. The efficacy of these treatments will be assessed through both quantitative as well as qualitative input from teachers and pupils. The anticipated outcome of this project encompasses a scalable AI framework that may be implemented into rural education systems to enhance learning results. This project aims to enhance equity in the education system by eliminating geographic and socioeconomic barriers to effective learning.