

Ethiopia's education system presents a labyrinth of challenges for visually impaired students. Textbooks exist, but often in outdated braille or low-quality audio, leaving gaps in learning and engagement. Digital platforms, vital for modern education, remain largely inaccessible due to a lack of screen reader compatibility. Traditional exams, reliant on sighted readers, introduce uncertainties and potential biases, hindering fair assessments and student confidence. Beyond resources, a shortage of trained teachers and limited assistive technology infrastructure create gaps in support and independence.

Despite these barriers, glimmers of hope shine through. Recent government policies, dedicated specialized schools, and increasing awareness efforts by NGOs pave the way for a more inclusive future. Our project aims to amplify these glimmers, developing an AI-powered educational system that empowers visually impaired students to navigate the existing landscape and unlock their full potential.

The proposed solution is to develop an AI-based educational system that converts reading materials into audio format, providing visually impaired students with accessible study materials. The system will also include a text-to-speech functionality during exams, eliminating the need for external assistance and promoting independent performance. The proposed system will address the major problems mentioned above.