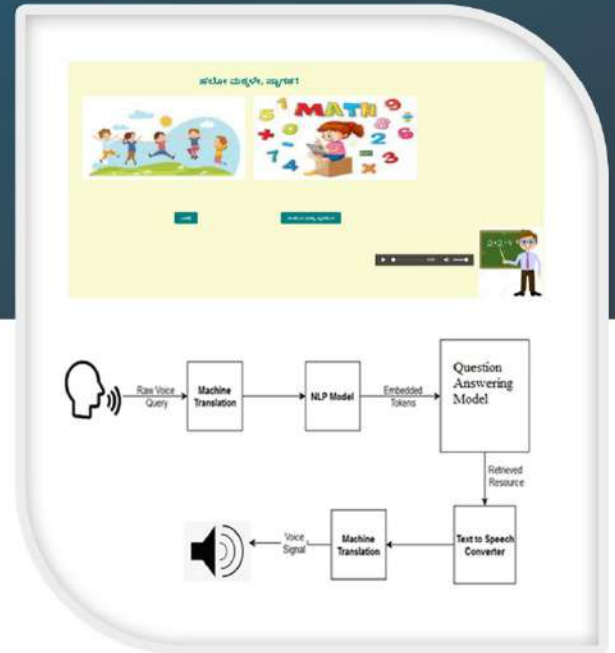


TECHNOLOGY DEVELOPMENT PROGRAM EDUTECH

AI-Medha

An AI-based virtual assistant to support primary education for rural students in regional language



Issue Being Addressed

- ▶ Shortage of skilled teachers
- ▶ Support for native language speakers
- ▶ Anxiety towards mathematics

Key Feature of The Technology/Product /App Which Is Being Developed

- ▶ The interactive chatbot is built for Mathematics for low resource language Kannada
- ▶ Speech-to-text, Text-to-speech, chatbot and visualisation tool works online or offline to help students in rural areas
- ▶ Dataset is collected from government school children studying in Kannada medium to train the model
- ▶ Help primary school students in rural areas with the help of Artificial Intelligence in learning mathematics for standard 1
- ▶ Dataset in the Kannada language is built to train the model

Impact & Benefit

- ▶ The tool developed will help the native language-speaking children to learn mathematics interactively with visualization in the Kannada language
- ▶ A strong educational foundation will help students in becoming better citizens and make a better society

Team

- ▶ **PI: Dr. Deepamala.N**
Assistant Professor
 - ▶ **Co-PI: Dr. Shobha**
Professor
 - ▶ **Co-PI: Prof. Sneha M**
Assistant Professor
- RV College of Engineering,
Bengaluru

Targeted Customers & End Users

- ▶ Government Schools
- ▶ Private Schools
- ▶ NGOs

Commercialization Status

- ▶ Collaborated with an NGO called "Caring with Colour – A Manasi Kirloskar Initiative"
- ▶ Voice samples of 250 school children studying in first standard have been collected for dataset generation with the permission from BEO
- ▶ Patent has been filed