FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)

Hormis Nagar, Mookkannoor PO, Angamaly, Kochi
Accredited by NAAC with 'A+' Grade

DEPARTMENT OF COMPUTER APPLICATIONS

SYNOPSIS OF THE MAIN PROJECT

Name of the Student	Mohammed Shekeeb.K
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Name of Project Guide	Ms. Rose Mary Mathew
Date of Submission	13/02/2024
Project Title	Text to speech generation for regional languages
Area of the Project	Business
GitHub ID	https://github.com/Shekeeb

Description of Project:

The project focuses on creating a robust text-to-speech (TTS) system tailored for regional languages, addressing the growing need for accessibility tools catering to diverse linguistic communities. The objectives encompass developing high-quality TTS models for various regional languages, ensuring naturalness, robustness, and accessibility across different platforms. By collecting large corpora of text and speech data, preprocessing, and training models using various architectures, the project aims to optimize performance and scalability. Integration with existing applications and continuous feedback loops ensure usability and refinement. Ultimately, this endeavor aims to enhance digital inclusion and communication opportunities for linguistic minorities, contributing to broader accessibility efforts and promoting inclusivity in the digital sphere.

Front End & Back End Tools	HTML, CSS, JavaScript, Python. NLTK, TextBlob, Librosa.