

Domain: App Development

Batch No: B26

G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)



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Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project on
"PROSE"**

Abstract:

Prose is a computer-based system that can convert text into voice notes. It can be directly introduced to a computer by an operator or scanned and submitted to an Optical Character Recognition (OCR) system. Optical Character Recognition is a digital copier that uses automation to convert scanned documents into editable and shareable, machine-readable PDFs. Basically, the input information of either text form or picture form can be read aloud by analyzing and processing the text using Natural Language Processing (NLP) and Digital Signal Processing (DSP) technology to convert this processed input into synthesized speech and then saved it as a file. Here, we developed a text-to-speech synthesizer that first asks the user to select the language for the speech. They can choose one or more than one languages in which they are comfortable. If there's a picture instead of text as input, the input is analysed and processed into a synthesized speech which gives the picture details and colours involved in the picture. Text-to-speech is an assisting technology in which a computer reads the words on the screen out loud to the user. This technology is very helpful to people with visual impairment. It will be of great help to the students who have difficulties with reading. The text-to-speech project takes words on digital devices and converts them into audio with a button click or finger touch.

H/W & S/W Requirements:

- Processor-i5, Memory-8GB, Microphone
- Windows 11/Linux/Mac, Visual Studio Code 2023, SQL 2022

***Dept R&D: No**

***If No: GNITS**



21251A05A7

Gundlapally Vaishnavi

gundlapallyvaishnavi7@gmail.com

6305768819



21251A05C5

Sathvika Jella

jellasathvika1528@gmail.com

9182398586

PRINCIPAL

G. Narayanamma Institute of
Technology & Science (for woman)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104.

Head of Department

Project Coordinator