Sanath Macha

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in LinkedIn   GitHub   Portfolio

Education

VASAVI COLLEGE OF ENGINEERING Hyderabad, India Engineering, Information Technology

GPA   8.88   2021-25

NARAYANA JUNIOR COLLEGE Hyderabad, India Intermediate, MPC, Percentage- 94.2 May 19 – March 21

NARAYANA CONCEPT SCHOOL Hyderabad, Telangana GPA: 9.5 March 19

Skills & Interests

Technical: C, Java, DSA, HTML, CSS, Bootstrap, DBMS SQL, Python, OS, Machine Learning,

Neural Networks

Languages: English, Telugu, Hindi

Interests: Novels and Mangas

Projects

INTELLIGENT ASSISTANT

- This project integrates Flask, JavaScript, and multifunctional assistant capable of speech recognition, text-to-speech, and news fetching. It also features object annotation using GroundingDINO and Anvil for image processing.

SPEAKER ID WITH DEEP LEARNING

- Implemented data pre-processing techniques for speaker identification, including combining audio files, extracting MFCC features, and label encoding.
- Utilized an LSTM neural network architecture to achieve 99.5% accuracy and 99.5% weighted F1 score for speaker identification.

CONTROLLING POWERPOINT PRESENTATION USING HAND

- The project's objective is to develop a program that allows users to control a PowerPoint presentation using hand gestures.
- The program utilizes computer vision techniques to detect hand gestures using a webcam and then maps those gestures to specific actions such as moving to the previous or next slide or closing the presentation. The goal is to provide an alternative and intuitive way of controlling a presentation without the need for a physical remote or mouse.

Certifications

- Amazon ML School
- NPTEL Certification for programming in Java
- NPTEL Certification for Data structures and Algorithms using Java