

# VIDYALATHA KUNDETI

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## Education

### Vellore Institute of Technology

*Bachelor of Technology in Electronics & Computer Engineering - CGPA 8.14/10.0*

**Jul. 2021 – Jul 2025**

*Chennai, TamilNadu*

### Srinivasa Junior College

*12th - Marks 905/1000*

**Jul. 2019 – Mar 2021**

*Nellore, Andhra Pradesh*

### Narayana High School

*10th - CGPA 9.2/10.0*

**Jul. 2018 – Apr 2019**

*Nellore, Andhra Pradesh*

## Experience

### Indian Space Research Organisation (ISRO)

*Internship*

**Aug 2023 – Present**

*Sriharikota (SHAR)*

- **RADAR Signal Analysis:** Utilized Python for comprehensive signal processing, facilitating accurate interpretation of RADAR data and supporting mission-critical decisions.
- **Embedded Systems Programming:** Developed and optimized embedded python code for RADAR systems, enhancing real-time data processing and system reliability.

## Projects

### Voice Assistant

- Leveraged advanced technologies such as OpenAI's GPT-3.5 engine, coupled with the Speech Recognition library, to enable seamless voice-based interactions. This involved the conversion of user audio input into text, subsequent processing to extract information, and utilizing OpenAI's engine to generate accurate and thoughtful responses.
- Incorporated multiple Python libraries to enhance user experience and project functionality. Utilized Pyttsx3 for text-to-speech conversion, ensuring the synthesized speech is user-friendly and clear. Integrated Speech Recognition to effectively convert user's spoken words into text, setting a foundation for accurate information retrieval.
- Crafted an interactive loop allowing for sustained conversation until the user concludes with a "Thank you". This dynamic approach not only maintains engagement but also ensures users can have extended dialogues, fetching diverse information in a single session, bolstered by the vast knowledge base of Wikipedia and the intelligence of OpenAI's language model.

### Comprehensive Analysis of UK Road Safety & Traffic Accident Patterns

- Conducted a comprehensive analysis on the UK traffic accidents dataset from 2005-2017, leveraging SQL for data extraction and exploration. Investigated patterns, such as peak accident times and areas with the highest casualties, to derive actionable insights.
- Effectively linked and managed two primary datasets AccidentInformation.csv & Vehicleinfo.csv using the unique traffic accident identifier, enhancing the depth of the analysis by combining accident details with vehicle-specific attributes.
- Uncovered significant trends, such as the correlation between vehicle age and accident risk, as well as the disparity in accident severity between urban and rural areas.

## Technical Skills

**Languages & Frameworks:** Python, Java,HTML/CSS, SQL, R

**Tools & Platforms:** Figma, Tableau, Microsoft Office

## Leadership / Extracurricular

### IEEE WIE

*Designer*

**Aug 2022 – Present**

*VITChennai*

- Entrusted with the design , while spearheading all technical activities of the club, displaying leadership and technical prowess