

K SAI SURYA SUBHASH

Visakhapatnam, Andhra Pradesh.

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Education

GITAM UNIVERSITY

Bachelor of Science in Computer Science Engineering

August 2022 - Present

Visakhapatnam, Andhra Pradesh.

ASCENT JR COLLEGE

Intermediate

2020-2022

Visakhapatnam, Andhra Pradesh.

SIVA SIVANI PUBLIC SCHOOL

7th-10th (ICSE)

2016-2020

Visakhapatnam, Andhra Pradesh.

Technical Skills

Programming Languages: Python, Java, C, MATLAB, JavaScript

Python Packages: Pandas, Matplotlib, Numpy, PyGame, TensorFlow, Jupyter

Cloud Technologies: Git

Software & Tools: HTML, CSS, AutoDesk, Figma, React

Soft Skills: Communication Skills, Teamwork and Collaboration, Problem-Solving

Experience

Health Check Pro Internship Project

October 2024 - December 2024

Web Development Intern

INFOSYS SPRINGBOARD

- Developed a responsive, user-centric health tracking website with some active users, delivering personalized health insights to improve physical, mental, and nutritional well-being, increasing user engagement by 30% in the first two months.
- Implemented real-time progress tracking and category-specific health scores, enhancing user retention by 25% through improved monitoring of health metrics.
- Designed and optimized a seamless user interface, contributing to a 40% increase in daily user interactions and a 15% rise in overall health habit adherence.
- Technologies: HTML, CSS, JavaScript, React.js (Frontend), Express.js, MongoDB, Nodemailer, JWT (Backend).

Projects

Speech-to-Text and Text-to-Speech Converter | Python, SpeechRecognition, pyttsx3, Google API December 2024

- Developed a Python-based solution integrating both Speech-to-Text and Text-to-Speech functionalities, utilizing the SpeechRecognition and pyttsx3 libraries, tested with over 100 speech inputs during development.
- Built a Speech-to-Text system leveraging Google's Speech Recognition API, providing reliable transcription for 5-second audio inputs with ambient noise reduction, successfully transcribing of audio in controlled environments.
- Implemented real-time transcription with an accuracy range of 70-80% under typical acoustic conditions, handling short, single phrases from users with clear voice input, achieving consistent recognition.
- Created a dynamic Text-to-Speech module that converts text to speech clearly, allowing users to customize voice selection, speech rate, and volume, providing personalized auditory experiences for over 100 different text entries.
- Designed a command-line interface (CLI), enabling users to seamlessly toggle between Speech-to-Text and Text-to-Speech functionalities, with over 100 user interactions tested for smooth functionality.
- Prioritized user-centric features, providing granular control over speech parameters and ensuring reliable performance in varied but typical real-world conditions, tested with common background noises and ambient conditions.

Relevant Coursework

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|------------------------|-----------------------|---------------------------|---------------------|
| • Data Structures | • Machine Learning | • Artificial Intelligence | • Operating Systems |
| • Software Engineering | • Database Management | • Data Science | • Computer Networks |

Courses, Certifications, and Achievements

Angular Full Stack

Completed Angular FullStack Course in Infosys SpringBoard

Python Data Structures

Coursera

SIH (Smart India Hackathon) Participation

Developed an innovative chatbot for museum ticketing, offering interactive ticket booking, exhibit real-time event updates.

Sports Achievement

Participated in March Madness in GITAM UNIVERSITY and secured 3rd place, winning a bronze medal.