SAI DEEPAK VARANASI

Hyderabad, Telangana, India

📞 +91 9133115280 ✉️ varanasisaideepak@gmail.com in saideepakvaranasi ⌂ Deepu1004 🖥 Portfolio

Education

Institute of Aeronautical Engineering	**Expected June 2026**
B.Tech in Information Technology (CGPA: 8.75/10)	*Hyderabad, Telangana, India*

Narayana Junior College	**2020 − 2022**
Intermediate (Percentage: 95.2%)	*Hyderabad, Telangana, India*

Narayana E-Techno School	**2019 − 2020**
Secondary Education (Cumulative GPA: 10.0/10.0)	*Hyderabad, Telangana, India*

Internship

Summer Research Intern -Certificate — May 2024 − June 2024

Virtual Mouse Using Hand Gestures — *Hyderabad, India*

− Developed a real-time virtual mouse interface using Python, OpenCV, and Mediapipe for gesture-based cursor control.
− Enhanced hand-tracking accuracy, reducing latency for a smooth user experience.

Projects

HyperOptiDetect-X — Jan 2025

Python, YOLOv10, COCO Dataset, Flask, OpenCV — *Hyderabad, India*

− Developed a web-based object detection system using YOLOv10 and the COCO dataset for detecting 80 classes.
− Implemented 6 different models for improved detection accuracy and efficiency.
− Designed a Flask backend to serve the models and handle requests from the frontend.
− Integrated the object detection models into a web interface for real-time object recognition.

ChronoSphere: Your one stop news solution — Dec 2024

Flask, HTML, CSS, JavaScript — *Hyderabad, India*

− Developed a dynamic news aggregator using Flask, enabling real-time headline scraping.
− Created a responsive design with theme toggles for cross-device compatibility.

J.A.R.V.I.S - Voice & Chat Assistant — Jan 2025

Python, PyQt5, SpeechRecognition, Pyttsx3 — *Hyderabad, India*

− Developed a voice and chat assistant using Python, PyQt5 for the GUI, and SpeechRecognition for voice commands, with features like weather updates, YouTube playback, and file search.
− Implemented seamless voice-to-text switching and designed an intuitive interface for a smooth and interactive user experience.

Weather Forecast Application — Sept 2024

HTML, CSS, JavaScript, OpenWeather API — *Hyderabad, India*

− Developed a weather forecast web application displaying current weather conditions and a 5-day forecast.
− Integrated the OpenWeather API to fetch real-time weather data and displayed it using an interactive UI.

Technical Skills

Languages: Java, Python, SQL, HTML, CSS, JavaScript
Frameworks and Tools: ReactJS, Tailwind CSS
Version Control: Git, GitHub
Databases: MySQL
Libraries: Pandas, Numpy, PyTorch, OpenCV
Tools: MS Office, MS Excel, Latex

Coding Profiles

LeetCode: Achieved 1723 rating, completed 225+ problems

CodeChef: Spearheaded as a 3-star coder, achieved a 1706 rating

CodingNinjas: Solved 160+ problems

HackerRank: Achieved 5-star rating in Python,Java,SQL

Certifications

HackerRank: Problem Solving, Java, Python, SQL, JavaScript, React.

FreeCodeCamp: Responsive Web Design.

Infosys Springboard: HTML, CSS, JavaScript.

NSIC: Data Science with Python.

Awards & Achievements

First prize at Mete Project Expo for a Voice Assistant.

Ranked top student in B.Tech (IT) program for second year.

Intern Completion Certificate for Virtual Mouse project.

Participant in 12-hour Hackathon conducted by IARE College.