# Sai Deepak Varanasi

Hvderabad, Telangana, India

🤳 +91 9133115280 💌 varanasisaideepak@gmail.com 📊 saideepakvaranasi 👩 Deepu1004 🔲 <u>Portfolio</u>

#### Education

Institute of Aeronautical Engineering

B. Tech in Information Technology (CGPA: 8.75/10)

Hyderabad, Telangana, India

Expected June 2026

2020 - 2022

Narayana Junior College

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.