Vaibhav Gupta

Vellore, Tamil Nadu, India | bibhu.2005ssj@gmail.com | +91-8527889187 | LinkedIn | GitHub

Professional Summary

AI and Software Engineering student with solid foundation in computer science, programming, and machine learning. Pursuing dual degrees - BTech in Computer Science and BS in Data Science with project experience in web development and ML. Seeking entry-level opportunities in AI and software development.

Experience

Space Tech Entrepreneur Intern – India Space Lab

- Completed 45-day intensive training in drone technology, satellite systems, rocketry, and space astronomy applications
- Developed autonomous mission control system with ESP32, real-time telemetry, and embedded C programming for IoT applications

Education

Vellore Institute of Technology, B.Tech in Computer Science (IoT)
CGPA: 9.3/10

Indian Institute of Technology, Madras, BS in Data Science
CGPA: 8.6/10

Air Force Golden Jubilee Institute, High School Diploma (Engineering)
Grade: A+

Projects

Autonomous Mission Control System for Small Satellite Operations

- Developed IoT-based mission control system simulating complete CanSat operations with DHT22 sensors and real-time telemetry
- Implemented automated mission phase management with emergency abort capabilities and continuous atmospheric data logging

Dish Dynamics - VIT Mess Manager

- Full-stack web app for mess operations with food preference tracking, waste analytics, and efficiency improvements
- Tech: React, Flask, MongoDB, HTML/CSS/JS

Tower of Hanoi - Interactive Web Game

- Interactive React game with drag-and-drop, dynamic disk scaling, and audio-visual feedback (CS50x project)
- Tech: React, JavaScript

Technical Skills

Languages: Python, C++, Java, C, JavaScript
Aerospace: Mission Control Systems, UAV Programming, Satellite Systems, OpenRocket, SolidWorks, ANSYS
Embedded Systems: ESP32, Arduino, IoT Sensors, Real-time Programming, Embedded C
Data Science: SQL, Data Analytics, Data Engineering, Azure, R Programming
Machine Learning: Regression, Classification, NLP, Anomaly Detection
Web Development: HTML, CSS, JavaScript, Flask, React.js
Cloud: Microsoft Azure
Tools: ROS2, Gazebo, Mission Planner, GIS Software, Wokwi

Certifications

Machine Learning Specialization (Coursera)

CS50x (Harvard)

Microsoft Applied Skills: Data Science & ML (Fabric)

Azure Data Scientist Associate (Microsoft)

Microsoft Applied Skills: NLP with Azure AI

Python (HackerRank)