Aditya Sakhare

Student at VIT, Pune

Passinate about Robotics, linux and a hardware tinkerer. Part time Competitive programmer.

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⚙ github.com/Adi-vig

SKILLS

- C/C++
- Python
- ROS2
- Linux
- Flask
- OpenCV
- CV and Image Processing
- Fusion 360
- DBMS
- OOP
- Embedded C
- Git/Github
- R
- Operating Systems
- SQL/NoSQL
- Data Science
- Machine Learning
- Data Structures
- x86 ASM
- Competitive Programming

INTERESTS

- Robotics
- Hardware and Electronics
- Open Source
- Linux

EDUCATION

B.Tech in Computer Engineering
Vishwakarma Institute of Technology, Pune

10/2022 - Present   *Current CGPA: 9.05*

11-12th Science (PCM)
Rajarshi Shahu Junior Science College, Latur

10/2020 - 10/2022

Exam Scores:
- JEE: 97.05%
- HSC: 82.67%
- IISER: AIR 1610
- MHT-CET: 98.54%
- JEE-ADV : AIR 24144

WORK EXPERIENCE

EYRC-24 Summer Intern
Eyantra, CSE Dept, IIT Bombay

05/2024 - 07/2024
Project: Realtime Motion Capture system for Drones/Groundbots with 6-DOF Pose data

ROS Domain Head
Team Quark, VIT Pune

05/2024 - Present

Competitive Programming Coordinator
Team Quark, VIT Pune

07/2023 - 05/2024

PROJECTS

Sentiment analysis model in R
- Technologies used: R , R shiny
- Using TFIDF vectorization , Created 3 different models : LM, Random Forest, m-KNN

Real time Parking Lot Monitoring System using Image processing and IOT
- Technologies Used: OpenCV , Python , Flask
- Use of Basic image processing techniques to detect for empty slots in a parking lot Overhead camera to Monitor the parking lot

TUI based Word Autocomplete Using TRIE in C
- Technologies Used: C
- Store over 300k words and dynamically add new words in runtime. Using Prefix Tree and static sized pointer array

Warehouse Drone EYRC-2025 (09/2024 - Present)
- Technologies Used: ROS2, Python, Whycon, OpenCV, Path planning, Betaflight
- controlling a drone with Fully autonomous navigation through obstacles and closed loop pid controller.

ACHIEVEMENTS

EYRC-2024 Certificate of Completion for hologlyph bots
Awarded for successful completion of the theme.

Winner of Coding Wars (03/2023)
*1st Place in "Coding Wars" contest in a **State Level** Technical Symposium 'Spectrum 23' oraganized by **PCCOE, Pune.***