Abhishek Pawar

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SUMMARY

Software Engineer with a solid foundation in machine learning, computer science, and Python. Hands-on experience in machine learning, IoT, and computer vision, and an active competitive programmer constantly honing my problem-solving skills.

EDUCATION

Savitribai Phule Pune University — Pune, MH
Bachelor of Engineering in Artificial Intelligence and Data Science CGPA : 8.68 — *Dec. 2021 – July 2025*

Relevant Coursework: Object-Oriented Programming, Data Structures and Algorithms, Operating Systems, Computer Networks, Database Systems,Machine Learning,Data Science, Artificial Neural Networks, Pattern Recognition,

SKILLS

Languages: Python, C++, JavaScript, SQL, HTML, CSS
Frameworks and Libraries: Flask, FastAPI, PyTorch, Scikit-learn, OpenCV, Node.js, Express.js
Databases: MySQL, MongoDB
Developer Tools:Git, GitHub,Docker, Amazon Web Services, Linux, Postman, Jupyter Notebook
Soft Skills: Problem Solving, Time Management, Leadership, Communication, Self Learner, Teamwork, Critical Thinking, Adaptability

EXPERIENCE

Software Developer (Robotics) — Oct. 2022 – May 2023
Robotics Team, Rudra(Robocon) — *Pune,MH*

- Worked on communication and data transmission systems, developed several low level and high level interfaces for data transmission
- Researched and Engineered prototypes for OTA updates for micro-controllers using FTP and remote servers
- Experimental study on RTOS and ROS for robotics systems

Research and Development Intern — Dec. 2023 – Mar. 2024
Sustainfy Energy — *Pune, MH*

- Designed and Implemented multiple protypes for EL Image Analysis and Processing
- Trained CV models and Implemented model inferences in web interfaces using FastAPI and Flask
- Worked on optimizing image processing speeds by 50%
- Gathered preprocessed and labelled 10000+ images using CVAT and Roboflow

PROJECTS

Robo-Connect | Link | *Java, Android, C++,JavaScript* — Dec. 2022

- Engineered an IoT-based communication system for inter-robot data transmission using C++, Arduino, and Java
- Developed the server side using C++ and JavaScript and Android app using Android Studio and Java

Smart Surveillance | Link | *Python, OpenCV,Flask,Supervision* — Mar. 2023

- Developed a web application for a smart surveillance system using Python, Flask, OpenCV, and PyTorch, designed a user-friendly front end using HTML, Bootstrap CSS, and JavaScript

Data-Vizard | Link | *Python,Streamlit* — Jan. 2024

- Easy-to-use data visualization tool for exploratory data analysis and data visualization with multiple file format support and feature mapping, developed using Python libraries: Streamlit, Pandas, Matplotlib, Plotly