Kshitij S. Hupare

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EDUCATION

Walchand Institute of Technology   Solapur, Maharashtra
Bachelor of Technology in Computer Science and Engineering CGPA: 8.68   *Aug. 2020 – June 2024*

EXPERIENCE

Cybernetik Technologies Pvt. Ltd.   Dec 2024 – Present
Python Developer   *Pune, Maharashtra*
- Worked on the development of firmware for Battery Management System (BMS).
- built 6+ industrial live monitoring dashboards, developed backend with real-time control.
- Engineered internal web applications, including a company-wide Task Management Application and a Production Line Data Visualisation dashboard, utilising Python (Flask/FastAPI), React, and SQL SSMS/MongoDB.
- Gained practical knowledge of industrial automation concepts, including PLC and SCADA systems, bridging IT and Operational Technology (OT) environments.

Vijesha IT Services LLP.   Jan. 2024 – May 2024
AI Engineer Intern   *Hubli, Karnataka*
- Implemented data-frame handling models and developed a recommendation system using collaborative filtering.

Freelancing   May 2024 – Dec 2024
Cloud and Full-Stack web-based Projects   *Kolhapur, Maharashtra*
- Built small business websites and integrated payment and reporting systems.

PROJECTS

Battery Activation | *Python, PyModbus, CANlib, Kevsar-CAN module*   Dec. 2024 - Mar. 2025
- Developed Battery Management System activation, Firmware development.
- EOL testing validation for electric vehicle batteries.
- Visualised data to show collaboration using PyQt5

Digital shopping trolley (IOT) | *Processors, Sensors, AWS EC2, S3, MongoDB, Git*   Jan 2024 – May 2024
- Created an IoT based digital shopping cart/trolley to reduce the waiting time at the billing desk.
- Helped in eliminating the need for checkout clerks by 47 per cent.
- Improved customer satisfaction by providing a more convenient and efficient shopping experience.
- Eliminated the need to wait in line at the checkout counter.

Textile Web-Application | *AWS EC2, S3, MongoDB, Django, JavaScript*   Feb. 2024 – May 2024
- Developed a web application to automate inventory management, marketing, and sales.
- Improved transparency and accountability, and also reduced tax by implementing the government verified "E-Way bill" system.
- Used an S3 Bucket to store the database and the EC2 instance to process and retrieve data for optimal usage.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, MongoDB, React, JavaScript, PHP
Frameworks: React, Node.js, Flask, FastAPI
Developer Tools: Git, AWS, GCP, VS Code, QtDesigner
Libraries: pandas, NumPy, Matplotlib, Pyodbc, PyModbusTCP, PyQt5, openpyxl, tkinter, pymongo
Other Skills: Ubuntu (Linux), RedHat Linux, Windows, MacOS, Android/IOS development

TECHNICAL CERTIFICATIONS

.NET Full Stack Developer Certification
Artificial Intelligence Primer Certification
DevOps Foundation Certification
Python Programmer Certification
Java Foundation Certification