

Kshitij Sagar Hupare

Ichalkaranji, Kolhapur, Maharashtra, India

(+91) 9922008673 | kshitijhupare07@gmail.com

[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

Technical Skills

| | |
|-----------------------|---|
| Programming Languages | Python (Pandas, NumPy, PyQt5, pymodbus, pyodbc), Java, JavaScript |
| Full-Stack/Frameworks | React.js, Node.js, Flask, FastAPI |
| Databases | SQL, NoSQL, MongoDB, MySQL, SQL Server (SSMS) |
| Cloud & DevOps | AWS, Docker, Git, GitHub |
| Automation/Other | PLC, SCADA, VS Code, QtDesigner |

Professional Experience

Python Developer Intern | Cybernetik Technologies

Pune, Maharashtra | Dec 2024 – Present

- **Contributed** to 3 industrial automation projects, focusing on developing **Building Management System (BMS) Firmware** and creating responsive graphical user interfaces (GUIs).
- **Engineered** internal web applications, including a company-wide **Task Management Application** and a **Production Line Data Visualization** dashboard, utilizing **Python (Flask/FastAPI)**, **React**, and **SQL SSMS/MongoDB**.
- **Developed** high-efficiency code for industrial communication protocols using specialized Python libraries (**pymodbus**, **pyodbc**), enhancing data exchange across systems.
- **Gained practical knowledge** of industrial automation concepts, including **PLC** and **SCADA** systems, bridging IT and Operational Technology (OT) environments.

Industrial Projects

1. BMS Activation & Battery Testing Validation (EOL)

- **Technologies:** Kevsar-CAN Module, Python-CANlib, PyModbusTCP.

- Developed **Battery Management System** activation, **Firmware** development, and **EOL testing validation** for electric vehicle batteries.

2. Full-Stack Textile Web-Application

- **Technologies:** React, JavaScript, Node.js, MongoDB, AWS (EC2, Route 53, S3, Amplify)
- **Designed and developed** a full-stack business application incorporating features for **Inventory Management, CRM, Marketing, and Sales tracking**.
- **Successfully deployed** the application using **AWS services**, enabling the system to service approximately **35 textile firms**.

3. Digital Shopping Trolley (IoT/Automation Project)

- **Technologies:** Raspberry Pi, Python, AWS EC2/S3, Sensors (IR, Barcode scanner)
- **Architected** an innovative IoT solution for a self-checkout system, providing **automated billing** and real-time inventory updates.
- **Quantifiably improved** the shopping efficiency, reducing the average checkout time by **43%** and enhancing the overall user experience.

Education

Walchand Institute of Technology, Solapur, Maharashtra, India

- **Bachelor of Technology (B.Tech.) in Computer Science and Engineering.**
- **Graduation:** July 2024
- **Academic Performance:** CGPA of **8.68 / 10.0**

Technical Certifications

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