

# Kshitij Sagar Hupare

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

## Technical Skills

<b>Programming Languages</b>	<b>Python</b> (Pandas, NumPy, PyQt5, pymodbus, pyodbc), <b>Java, JavaScript</b>
<b>Full-Stack/Frameworks</b>	<b>React.js, Node.js, Flask, FastAPI</b>
<b>Databases</b>	<b>SQL, NoSQL, MongoDB, MySQL</b> , SQL Server (SSMS)
<b>Cloud &amp; DevOps</b>	<b>AWS, Docker</b> , Git, GitHub
<b>Automation/Other</b>	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: Kvsar-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.
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## 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**
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## Technical Certifications

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