

SHANTANU KRUSHNA CHINCHLE

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Professional Summary

Aspiring Embedded Systems Engineer with a strong foundation in microcontrollers, real-time systems, and hardware-software integration. Demonstrated experience in developing intelligent, embedded solutions for automation and control. Passionate about solving real-world problems using embedded technologies, IoT, and machine learning. Eager to contribute to cutting-edge innovations in embedded systems and smart automation..

Education

Bachelor of Engineering (B.E.) – Electronics & Telecommunication

MET Bhujbal Knowledge City, Nashik

CGPA: 8.35 | Expected Graduation: 2025

Technical Skills

Languages & ML Libraries: Python, Java (Basic), C++, NumPy, Pandas, Scikit-learn, OpenCV, Matplotlib, Seaborn, Tkinter

Tools & Frameworks: Jupyter Notebooks, Github, Google Colab, Codeblocks, VScodes, Arduino IDE, Raspberry Pi OS

Cloud: AWS (S3, Boto3), Google Cloud Platform (GCP)

Hardware & Other: Raspberry Pi, ESP32, Arduino, PCB, LCD

Certifications

Machine Learning Engineer – Symbiosis Skills and Professional University

Google Cloud Training – Google Developer Student Clubs (GDSC)

Industrial Automation & PLC – HBS Automation Systems Pvt. Ltd.

Projects

Smart Trolley Billing System

- Developed a smart billing system using Raspberry Pi, Touchscreen Display and GM65 Barcode scanner .
- Integrated barcode scanning for real-time item addition
- Used Weight Sensor for theft detection or detecting Removal of any item from the trolley
- Enabled cloud-based data storage using AWS S3 for Storing Billing history
- Used WinSCP to connect the system with raspberry pi over a wifi network
- Build a Power Source from 4 Batteries (18650) with 5v output voltage
- Tech Stack: Python, Raspberry Pi, Tkinter, AWS S3, Barcode Scanner, Touchscreen Display, winSCP

Fertility Detection Device

- Build an IoT device to detect LH levels from test strips via TCS3200 Color sensor
- Processed RGB data using TCS3200 and mapped it to fertility percentages.
- built a health tracking interface for users.using HTML , CSS, and JavaScript
- Tech Stack: ESP32, TCS3200, Python,

Internship Experience

Industrial Electronics Intern – HBS Automation Systems, Nashik

Jan 2024 – Apr 2024

- Automated sewage treatment using PLC programming and hardware interfacing.
- introduce electronic instruments , Like PLC, Overload Relays, Different types of MCB's
- Build Small Motor Driver Circuits using Overload Relays , Contactors , and MCB.
- Contributed to the implementation of automatic toll plaza systems using PLC and hardware.

Achievements

- 1st Prize – METIORITE Project Presentation, MET Nashik (2024)
- 2nd Prize – IEEE Project Competition, MET BKC IOE Nashik (2024)
- Finalist – Smart India Hackathon (2024)
- Participant – GMRT Project Competition, TIFR Pune (2025)
- Participant – ProJIT Project Competition, JIT Nashik (2025)
- 2nd Prize – MET Enthusia Intercollege Project Competition (2025)
- Research Paper – ICIA-MET'2025 (International Conference on Innovative Approaches in Multidisciplinary Engineering & Technology)

Leadership & Volunteering

Cloud Co-Lead – Google Developer Student Club (GDSC)

Event Management Head - ACES Committee MET .

