

Shilpak Shrikrishna Katre

Pune, Maharashtra

katre.shilpak@gmail.com | +91 9922763623

Shilpak Katre

Professional Summary

Enthusiastic Electronics and Telecommunication Engineering student with strong foundational knowledge in embedded systems and IoT. Hands-on experience in hardware prototyping, sensor integration, and real-time data systems. Currently developing AI-based energy optimization solutions. Quick learner with strong problem-solving skills, seeking opportunities in embedded systems and automation domains.

Education

Marathwada Mitra Mandal College of Engineering 2023 – 2027
Bachelor of Engineering in Electronics and Telecommunication
Pune, Maharashtra
CGPA: First Year: 7.70 Second Year: 7.98 Third Year: 7.95

Experience

Skillful Technologies Pvt. Ltd. Jan 2026 – Feb 2026
Pune, Maharashtra

- Gained hands-on experience in industrial product development, component identification, and testing procedures.
- Assembled and tested an audio amplifier circuit from schematic to functional prototype.
- Designed and implemented LED lighting system for a kiosk machine.

Internpe (Embedded Systems Engineer) Ongoing

- Working on embedded system development and real-time applications.

Projects

Smart Vehicle Parking System April 2024

- Developed an IoT-based system to detect available parking spaces using sensors.
- Implemented real-time monitoring and automation to optimize parking utilization.
- Presented project at “UDAAN” college competition.

Automatic Traffic Control System April 2025

- Designed a smart traffic system using IR sensors and ESP32.
- Adjusted signal timing dynamically based on vehicle density.
- Displayed real-time data using OLED display.

AI-Based Smart Energy Management System

- Developing an AI-driven system to predict power consumption in real time.
- Optimizing energy usage using sensor data and machine learning techniques.

Technical Skills

Languages: Embedded C (Learning), Python, Basic C++, Verilog

Core Skills: Embedded Systems, IoT, Sensor Integration, Circuit Design

Soft Skills: Quick Learner, Team Collaboration, Communication, Time Management

Certifications

- Honeywell Future Skills Program on Artificial Intelligence (BharatCares)
- Cisco Networking Academy – Networking Basics