



SUMAIYA J. PIRJADE

A highly motivated and dedicated Instrumentation and Control student looking for a position in an esteemed organization where I can utilize my skills for growth of the organization. Currently Pursuing BTech Undergraduate (Instrumentation and Control)

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📍 Pune, Maharashtra

EDUCATION

MKSSS's Cummins College of Engineering for Women, Pune

2023-2027 CGPA - 9.39(current)

Higher Secondary Education

Jai Hind Junior College, Pimpri, Pune

HSC Board - 87.33%

Secondary Education

Little Flower English Medium School

Maharashtra Board - 94.80%

TECHNICAL SKILLS

- **Programming Languages:**
Embedded C, Python, C
- **Microcontroller & Platforms:**
ATmega8535, 8051, Arduino UNO, ESP32, NodeMCU
- **Embedded Systems Tools:**
AVR Studio, Proteus Design Suite, Multisim, KEIL, Arduino IDE, circuit simulation and debugging
- **IoT & Connectivity:**
Sensor integration for automation application
- **Data & Analysis Tools:**
Excel, Power BI, MATLAB
- **Data Structure and Algorithm:**
Arrays, Strings, Linked Lists.

SOFT SKILLS

- Collaboration and teamwork
- Adaptability and flexibility
- Quick learner
- Effective communication
- Leadership and guidance
- Time management
- Project management

LANGUAGE

- English
- Marathi
- Hindi

PROJECTS/ COURSES

- **Fire Detection System – ATmega8535, Proteus**
Designed a flame-sensing alert system using ADC activated real-time buzzer and LED alerts with enhanced accuracy and quick output.
- **Digital Door Lock System - Arduino, Proteus**
Designed a password-protected door locking system using Arduino, keypad, LCD, and DC motor in Proteus. Enabled secure access control through password verification and feedback display, simulating a effective solution.
- **B.S. in Data Science (Foundational Level) – IIT Madras (Online)**
Core areas: Python, Statistics, Math, Problem Solving, and Data Handling
- **Adaptive Traffic Light Based on Emergency Vehicles**
Developed a microcontroller-based adaptive traffic light system that detects approaching emergency vehicles using ultrasonic/RF sensors and dynamically prioritizes their passage by altering traffic signal timings.

CERTIFICATIONS

- Participant – **Smart India Hackathon (SIH) 2024**
- Participant – **Smart India Hackathon (SIH) 2025**
- **Microsoft Excel Certifications–**
 - Getting started with Excel
 - Excel for Intermediate Level
 - Master Data Analytics in Excel
- **Certified in Computer Networking–**
 - Cisco Packet Tracer
- **Certified in MATLAB & Simulink –**
 - MATLAB Onramp
 - Simulink Onramp
 - Control Design Onramp
- **Certified in Power BI -**
 - Introduction to Power BI
- **Certified in Digital Signal Processing -**
 - Digital Signal Processing Onramp

ACTIVITIES & HONOURS

- **Second Runner-Up** – District-Level Dodgeball Championship
- **Second Runner-Up** – District-Level Aatya-Patya Tournament
- Participated in **Innovation 2025** - Designed and built a **remote-controlled robot car** using **4 DC motors (200 RPM)** with **12V** supply.
- Participated in **Dodgeball (2024)** and **Throwball (2025)** at Pentacle Sports Fest, MKSSS's Cummins College of Engineering for Women, Pune
- **Industrial Visit – RCF Mumbai, Trombay Unit**
Gained exposure to large-scale chemical processing operations, industrial control systems, manufacturing workflows, and plant safety practices.
- **Industrial Visit – Cummins India, Phaltan Plant**
- **Volunteer – Career Guidance Cell**
Promoted career sessions, participated in events, and delivered speaker introductions and vote of thanks
- **MAPAN Student Editor – Department Magazine (2024–25)**
Volunteered as a student editor for the 21st edition of MAPAN, contributing to content planning, proofreading, and article organization.