



# Samadhan Ghalake

Final-Year ENTC Student

Tech-driven ENTC student passionate about coding & innovation



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## SKILLS

Languages: Java (DSA), Python (Basics), C, C++

HTML, CSS, JavaScript (Basics)

Arduino, Microcontrollers

Sensor Integration, Motor Driver Control

Software Tools: Arduino IDE, Proteus

## LANGUAGES

English  
Full Professional Proficiency

Hindi  
Full Professional Proficiency

Marathi  
Native or Bilingual Proficiency

## INTERESTS

Technology Innovations & Automation

Problem Solving Challenges

Travelling & Exploring Historical Places

## EDUCATION

**Bachelor of Engineering in Electronics & Telecommunication (ENTC)**  
Savitribai Phule Pune University (SPPU) –RMDSSCOE

08/2022 - 06/2026

Pune

## PERSONAL PROJECTS

**SMART FIRE EXTINGUISHER ROBOT (01/2025 - 06/2025)**

- Designed and developed an **Arduino-based autonomous robot** capable of detecting and extinguishing small fires without human intervention.
- Integrated **IR flame sensors** for fire detection and **L293D motor driver** for navigation control.
- Implemented **extinguishing mechanism** using a mini water pump and servo-based targeting system.
- Technologies Used: Arduino UNO, Embedded C, IR Flame Sensor, DC Motors, Servo Motor, Water Pump, Proteus Simulation.

**IoT-Based Smart Home Automation System (01/2024 - 06/2024)**

- Developed an IoT-enabled smart home automation system using **Arduino**.
- Integrated multiple sensors for **real-time control and monitoring** of devices.
- Programmed system logic in **C++** to enable automation and remote operation.

**Historical Forts Information Android App**

- Designed and developed a mobile application using **Android Studio**.
- Provided detailed offline information on **Forts of Chhatrapati Shivaji Maharaj** once installed.
- Ensured user-friendly interface and offline accessibility for enhanced user experience.

## WORK EXPERIENCE

**Intern – Core Electronics**  
Vighnaharta Technologies Pvt. Ltd.

12/2024 - 02/2025

pune

*Achievements/Tasks*

- Gained hands-on experience in core electronics and embedded systems !
- Learned about industrial safety and security products !
- Assisted in assembling, testing, and troubleshooting electronic devices !

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## CERTIFICATES

Introduction to Soft Skills – TCS iON Career Edge

Data Visualisation: Empowering Business with Effective Insights – TATA Forage

Foundation Course on Green Skills and Artificial Intelligence

C & C++ Programming – Udemy

Deloitte - Data Analytics Job Simulation

AWS Certification Course from IntelliPaat Academy

Java Course from Core2Web (08/2024 - 11/2024)

## ACHIEVEMENTS

Successfully completed a 2-month Core Electronics Internship at Vighnaharta Technologies Pvt. Ltd.