

MUGUNDHA B

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LinkedIn | Leetcode | GitHub | Portfolio



ABOUT ME

Electronics and Communication Engineering undergraduate with hands-on experience in Python, Embedded Systems, and IoT automation projects. Skilled in building data-driven and sensor-based systems with real-time monitoring dashboards. Actively exploring AI-assisted development, prompt engineering, and automation workflows. Strong problem-solving mindset demonstrated through internships, competitive programming, and technical projects.

EDUCATION

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

B.E. Electronics and Communication Engineering | 2027

CGPA: 8.51

SBOA SCHOOL (CBSE)

HSC - 2023

Percentage: 92%

SBOA SCHOOL (CBSE)

SSLC - 2021

Percentage: 91.8%

SKILLS

- Programming Languages: Python, Java, C, C++
- Python Libraries: Pandas, Scikit-learn, Flask
- Tools: VS Code, Git/Github, MongoDB

PROJECTS

MOVIE RECOMMENDATION

SYSTEM | Python, Pandas, Scikit-learn

- Built a **content-based movie recommendation system** using **Python** and **Scikit-learn** with feature vectorization and similarity scoring.
- Performed **data preprocessing** and feature preparation using **Pandas** on custom CSV datasets.

SMART WASTE SEGREGATION & MONITORING SYSTEM

November 2025

- Tech Stack: MongoDB, Python Flask, IR and metal sensors, Arduino Uno.
- Reduced manual labor by storing and analyzing more than **100+ timestamped records**.

EXPERIENCE

CODSOFT

| Intern

Dec 15 2024 – Jan 15 2025

- Designed **Java-based mini applications**, to improve **user interaction** and **program logic design**.
- Applied **Object-Oriented Programming (OOP)**, **loops**, **conditional statements**, and **exception handling** to build **structured and reliable applications**.
- Enhanced **debugging**, **code optimization**, and **problem-solving skills** while developing user-driven console applications
- Implemented input validation and logic testing for application correctness.
- Used **GitHub** for version tracking and code management.

QUANTANICS TECHSERV PVT. LTD. MADURAI

| Intern

May 19 – June 04 2025

- Created **two or more** sensor-based IoT prototypes **Arduino Uno**, **ESP32**, and **ESP8266**, obtaining practical embedded system development experience.
- Sensors and microcontrollers were integrated to process data in real time, increasing system dependability and lowering the need for manual monitoring.
- Used **GitHub** for version tracking and code management.

CERTIFICATES & ACHIEVEMENTS

- **IEEE Xtreme 19.0 (2025)**: Ranked **597th in India** in a 24-hour global competitive programming contest; solved algorithmic problems using **C++, Java, and Python**.
- **Smart India Hackathon (2025)**: Participated and designed a **Smart Waste Segregation & Monitoring System** using IR and Metal sensors with a real-time web dashboard.
- **HackerRank Certifications**: Java Basics, Problem Solving (C++), demonstrating strong foundations in **Object-Oriented Programming (OOP)** and **algorithms**.
- **Infosys Springboard Certifications**: Database and SQL, Data Structures and Algorithms using Java.
- **iamneo Certification**: Data Structures and Algorithms using C++.