

Syed Abudahir. A

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PROFILE

Engineer with a strong programming background and a problem-solving mindset, focused on addressing real-world challenges and creating meaningful outcomes using machine learning and computer vision.

TECHNICAL SKILLS

Languages: C++, C, Python, Java, SQL

Frameworks: Scikit-learn, Opencv, Numpy, Pandas, SQL lite, Flask, Matplotlib, Streamlit

Tools: Power BI, VS Code, Excel, Git, Proteus, Onshape Cad, MATLAB, Jupyter Notebook, Blynk

EXPERIENCE

NSIC (National Small Industries Corporation Technical Services Centre) - Intern **JAN 2023 - FEB 2023**

- Designed and simulated electronic circuits using Proteus and assembled them for practical testing and validation.
- Acquired hands-on experience in embedded systems with IoT, strengthening core skills in circuit design, debugging, and hardware integration.

PROJECTS

House Price Prediction using Machine Learning

- Developed a regression model to predict house prices using features such as location, square feet area, and BHK. Performed EDA with Pandas and Matplotlib for cleaning, preprocessing, and visualization.
- Evaluated multiple regression models, with Linear Regression achieving $R^2 = 0.88$ and **~88%** prediction accuracy, and deployed the model as an interactive Flask web application for real-time predictions.

Face Recognition Attendance System

- Developed an face recognition attendance system using deep learning, enabling users to register their face and automatically mark attendance with **95%+** recognition accuracy and preventing duplicate and fake entries .
- Implemented data storage and management using SQLite and CSV, with modular scripts for user registration, real-time attendance logging, and scalable backend for easy maintenance and future extension.

Smart Home Automation System

- Designed a home automation system using ESP32 microcontroller and relays to control multiple appliances remotely via smartphone over the Internet and Wi-Fi from anywhere, leveraging Blynk and a custom web application for seamless user experience.
- Integrated AI-powered voice commands and real-time speech recognition through Google Home, enabling intuitive, hands-free interaction with devices and efficient energy management.

EDUCATION

Saveetha Engineering College

November 2021 - May 2025

B.E - Electronics & Communication Engineering | **CGPA: 8.3**

Sree Venkateshwarar Matriculation Higher Secondary School

June 2019 - April 2021

X Percentage: 85 | XII Percentage : 88

CERTIFICATION

- Python Essentials 1 & 2 - **Cisco Networking Academy**
- Internet of things (IOT) - **NPTEL**