Shebin Sabu

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Profile Summary

Aspiring back-end developer with hands-on experience in Django, REST APIs, and server-side logic.

Strong in data preprocessing and ML fundamentals, with growing interest in AI and cloud computing.

Collaborative problem-solver focused on writing secure, scalable, and maintainable code.

Skills

Languages: Python, HTML, CSS, JavaScript
Back-End Development: Django, REST APIs, Server-Side Logic, MySQL
Data Engineering: Data Preprocessing, Data Visualization, Pandas, NumPy, Matplotlib, scikit-learn
Tools & Technologies: Git, OpenCV, VS Code
Other Skills: Version Control, Debugging, Problem Solving

Education

Bachelor of Technology in Information Technology — Graduated: 2025
Government Engineering College Barton Hill, Thiruvananthapuram

Central Board of Secondary Education (CBSE) — Graduated: 2021
St. John's Academy

Central Board of Secondary Education (CBSE) — Graduated: 2019
St. John's Academy

Projects

Chatroom Web Application using Django

- Built a full-featured chatroom platform where users can register, log in, create profiles, and manage sessions securely.
- Implemented functionality for users to create rooms based on discussion topics and participate in conversations.
- Enabled user profile views with details of active and past room engagements.
- Designed database schema using Django ORM to manage rooms, users, messages, and topics.

Heart Disease Prediction Using Machine Learning

- Built a supervised learning pipeline to predict heart disease using scikit-learn, including end-to-end data preprocessing (handling missing values, feature scaling, and encoding categorical variables).
- Applied and compared multiple classification algorithms (Logistic Regression, Random Forest, SVM), optimizing hyperparameters with GridSearchCV.
- Used stratified k-fold cross-validation and evaluated models using precision-recall, and confusion matrix to ensure robust performance.

Raptail- Automated self checkout system

- Developed an AI-powered self-checkout system using YOLO-based real-time object detection, eliminating the need for barcodes and enabling automated multi-object recognition with high accuracy.
- Implemented advanced computer vision techniques to train and optimize object detection models, ensuring accurate product recognition without the need for manual scanning.
- Designed and implemented a structured database system to store product attributes and automate billing, reducing checkout time and improving efficiency in retail environments.

Certifications

Google AI Essentials | *Issued by Coursera* | *March 2025*