

IRFAN AHMAD

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PROFESSIONAL SUMMARY

Backend and machine learning-focused developer with hands-on experience building Flask applications and integrating trained ML models into practical workflows. Skilled in Python and SQL, with a focus on writing structured code, evaluating model performance, and solving real-world problems.

EDUCATION

Asansol Engineering College, MCA 2023 – 2025
CGPA: 8.8

Asansol Engineering College, BCA 2020 – 2023
CGPA: 8.9

Assembly Of God Church School, Sodepur, 12th (Intermediate) 2019
Percentage: 68.3

Assembly Of God Church School, Sodepur, 10th (Matriculation) 2017
Percentage: 80.8

SKILLS

Programming Languages & Core Concepts: Python, Object Oriented Programming (OOP)

Backend & Databases: Flask, SQL, MySQL, SQLAlchemy, CRUD Operations

Machine Learning: Data preprocessing, Model training, Model evaluation (ROC-AUC, Accuracy, F1-score, Precision, Recall), Handling class imbalance (SMOTE)

PROJECTS

Medi-Matrix: Disease Prediction System [🔗](#)

- Developed a Flask-based web application integrating ML models for disease prediction from user input.
- Built a unified system covering both diabetes and heart disease prediction.
 - **Diabetes Prediction System:**
 - Trained and compared models including Logistic Regression, SVM, and ensemble methods.
 - Addressed class imbalance using **SMOTE**, improving recall and overall model balance.
 - Achieved **ROC-AUC** of **0.81** and **F1-score** of **0.67**.
 - **Heart Disease Prediction System:**
 - Trained tree-based ensemble models including Random Forest, Extra Trees, and AdaBoost.
 - Achieved **ROC-AUC** of **0.93** and **F1-score** of **0.88**.

Diverse-Delights: E-Commerce Web Application [🔗](#)

- Built a Flask-based full-stack-e-commerce web app using SQLAlchemy (SQLite database).
- Implemented user authentication, product browsing, cart management, and order placement.
- Integrated Razorpay payment gateway and handled order confirmation.