Faraj Islam

Pre-Final Year Student | Aspiring Full-Stack Developer | Computer Science Undergrad at SIT Pune

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- *Hey there! I'm currently pursuing my undergraduate degree in Computer Science at SIT, with a keen interest in Software Development.Eager to deepen my understanding and contribute to this exciting field.I'm always on the lookout for opportunities to learn and collaborate. Let's connect and explore the endless possibilities of Software Development.*

EDUCATION

SIT- Symbiosis Institute of Technology

September 2022 - December 2026

Bachelor of Technology - BTech, Computer Science

- Skills: JavaScript · MongoDB

Kendriya Vidyalaya

January 2010 - December 2022

LANGUAGES

Assamese, **Bengali**, **English**, **German**, **Hindi**

PROJECTS

Loan Default Prediction Model Using Random Forest and Decision Tree

January 2024

- In today's financial landscape, predicting loan defaults is crucial for maintaining the stability of lending institutions. To address this challenge, I developed a loan default prediction model using Random Forest and Decision Tree algorithms.
- This model is designed to analyze key borrower characteristics, including credit history, income level, employment status, and loan details, to accurately predict the likelihood of default. Here's a breakdown of the model:
- Decision Tree: This algorithm was used to create an intuitive, interpretable structure that helps in understanding the decision-making process behind each prediction. It offers a clear pathway, showing how each factor contributes to the final prediction.
- Random Forest: Building upon the decision tree, I implemented a Random Forest model, which combines multiple decision trees to improve prediction accuracy and generalization. By averaging the outcomes of numerous trees, the model reduces overfitting and increases robustness.
- Key Results:
- Improved Accuracy: The Random Forest model achieved an accuracy of [insert percentage] on the test dataset, outperforming traditional models.
- Feature Importance: The model highlighted critical features such as [insert key features], allowing for better insight into the factors influencing defaults.
- Scalability: The model is optimized for large-scale deployment, making it suitable for real-world financial institutions.
- By leveraging these advanced machine learning techniques, the model provides actionable insights for lenders, helping to minimize risk and improve decision-making. This predictive solution can enhance the profitability and security of loan portfolios in the long run.

Online Food Ordering Management System

January 2024

- We developed a basic Online Food Ordering Management System with a Java Swing frontend and MySQL backend. The system allows users to place food orders directly through an intuitive interface, simplifying the ordering process for both customers and restaurant staff.
- Key features of the system include:
- Java Swing Frontend: A user-friendly graphical interface for browsing menus and placing orders, offering an interactive experience.
- Order Management: Restaurant staff can view and manage orders efficiently through the backend system.
- Database Integration: The system uses MySQL to securely store customer data, menu items, and order histories, ensuring reliable data management.
- Basic Functionality: This version of the system focuses on core order management without delivery tracking, making it ideal for smaller restaurant setups or local operations.

Portfolio Website (MERN Stack)

- I am developing my personal portfolio website using the MERN stack (MongoDB, Express, React, and Node.js) to showcase my projects, skills, and experiences in the field of software development.
- This portfolio serves as a dynamic platform to highlight my work, with the following key features:
- Interactive UI: Built using React.js, the front-end provides a seamless user experience with dynamic content rendering and responsive design.
- Backend Integration: The website is supported by a robust Node.js and Express backend, managing the portfolio's content and communication between the client and server.
- Database: MongoDB is utilized to store project details, contact forms, and other data, ensuring efficient data retrieval and management.
- Deployment: The project is deployed on AWS and is optimized for performance and scalability.
- This project not only reflects my skills in full-stack development but also serves as a demonstration of my ability to build and deploy scalable, user-centric web applications.

VOLUNTEERING

July 2024 - Present

Student Volunteer