

# Prasum Kumar Dubey

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## EDUCATION

**J.C. Bose University of Science and Technology, YMCA, Faridabad**

*Bachelor of Technology in Computer Engineering*

Oct 2022 – Jul 2026

CGPA: 8.11 /10

**Hindu Sr. Sec. School, Sonipat**

*Intermediate | CBSE | Percentage: 92.4*

## PROJECTS

**InvestSafe – A Machine Learning-Based Investment safety Predictor**

[Github Link](#)

- Python, Scikit-learn, Pandas, NumPy, Gradient Boosting Regressor, HTML, CSS, JavaScript, Node.js, MySQL
- Built a full-stack web application that utilizes the 2004 Britain Expenditure Dataset to predict whether users can safely invest based on financial indicators such as income, assets, expenses, debts, liabilities, savings, and profit.
- Preprocessed and engineered features, trained a Gradient Boosting Regressor achieving an  $R^2$  score of 0.8, ensuring robust predictive accuracy.
- Developed and deployed a secure user authentication system (login/signup) with Node.js and MySQL backend, and a responsive front-end using HTML, CSS, and JavaScript.
- Delivered a seamless, interactive user experience that provides personalized investment recommendations, now tested across diverse financial profiles with real-time model feedback.

**EduBot: AI-Powered College Assistant System**

[Github Link](#)

- Python, Rasa, Flask, MySQL, HTML, CSS
- Developed an intelligent chatbot using the Rasa open-source framework to assist students with queries related to courses, departments, and fee structures in real time.
- Designed and trained custom NLU models and dialogue management systems, implementing domain-specific intents, entities, and stories to ensure accurate and contextual responses.
- Integrated a MySQL database with custom Python actions to enable dynamic data retrieval and personalized answers based on user input.
- Built a lightweight Flask-based web application to provide a seamless local interface for student-chatbot interactions.
- Successfully handled end-to-end development including backend integration, conversational flow design, and full-stack deployment, enhancing capabilities in conversational AI and real-world web solutions.

## TECHNICAL SKILLS

**Languages:** C/C++, Python, SQL, JavaScript, HTML/CSS

**Technical Skills:** NodeJS, ReactJS, MongoDB, Numpy, Pandas, scikit-learn, matplotlib, Streamlit, MySQL,

**Academic Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Operating system, Computer Networks, Database Management System, Software Engineering

**Developer Tools:** Git/Github, VS Code, Cisco Packet Tracer, IDLE, Jupyter notebook, MySQL Workbench

## ACHIEVEMENTS

- Authored and presented **Financial Investment Assistant**: A comprehensive, data-driven approach to empowering informed and secure financial decision-making, Achieved an  **$R^2$  score of 0.8** with Gradient Boosting Regressor for **high-accuracy** investment forecasting.
- Successfully solved over **300+ DSA problems** on platforms including **Leetcode**, **Geeksforgeeks**.
- **Smart India Hackathon** College- Finalists- 2024.
- Certified in **SQL Intermediate - HackerRank**.