

Rajeev Ranjan

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Education

VIT Bhopal University, Bhopal

2022 – Present

Bachelor of Technology, Computer Science and Engineering (Specialization in E-commerce)

- Current CGPA: 8.01

Projects

Agrify

April 2025

[GitHub Repository](#)

- Architected a data-driven web application using a **Random Forest Classifier** to provide optimal crop recommendations by analyzing soil and climate parameters.
- Engineered a robust RESTful API using **Flask** to serve model predictions, enabling asynchronous frontend communication via **AJAX** for a seamless, non-blocking user experience.
- Performed model evaluation and hyperparameter tuning using **Scikit-learn** to optimize the accuracy of the Random Forest model.
- Implemented a data processing pipeline with **Pandas** and **NumPy** for data cleaning and normalization; utilized **Joblib** for efficient model serialization to optimize inference performance.
- Designed an intuitive user interface with interactive forms and dynamic data visualizations to display crop recommendations and soil analysis results.

EI-matador: Financial Assistant Dashboard

July 2025

[GitHub Repository](#)

- Developed a sophisticated, server-side rendered (SSR) financial dashboard using **Next.js** and **TypeScript**, powered by serverless **Firebase Functions** and the **Gemini API**.
- Orchestrated complex AI agentic workflows with **Langchain**, using **Redis** for low-latency session caching and **Firestore** for persistent conversational memory.
- Implemented secure, token-based user authentication and authorization using **JWT** to protect sensitive financial data and ensure secure session management.
- Integrated third-party financial APIs, including **Plaid** for real-time transaction data and **Alpha Vantage** for market analysis, to provide comprehensive financial insights.
- Built a robust logging and analytics system with **Langfuse** to monitor prompt performance, track token usage, and debug AI behavior in production.

Technical Strengths

Languages: Java, JavaScript, Python, MySQL

Frameworks and Libraries: React, Spring Boot, Next.js, Pandas, NumPy, Scikit-Learn, TensorFlow

Developer Tools: Git, AWS, Power BI

Achievements

- Cleared TCS CodeVita (Season 12) Round 1
- 5 star in Java on Hackerrank platform

Certifications

- Ethnus MERN Full Stack certification
- Ethnus AWS Solutions Architect-Associate certification