

# Rajeev Ranjan

☎ (+91) 7903876220    ✉ imrr1289@gmail.com    in linkedin.com/in/rajeev-ranjan-925aa1251

🌐 <https://github.com/rajeev782>

## Education

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**VIT Bhopal University, Bhopal** *Bachelor of Technology, Computer Science and Engineering (Specialization in E-commerce)* 2022 – Present

- Current CGPA: 7.98

## Projects

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**Crop Recommendation System** Jan 2025

- Built an ML-based web app using **Random Forest Classifier** to recommend crops from soil and climate data.
- Developed a **Flask API** with **AJAX** for real-time predictions, and a responsive UI using **Bootstrap**.
- Used **Pandas**, **NumPy**, and **Joblib** for data handling and optimized model inference.
- Enabled asynchronous form submission using **jQuery**, improving UX with no page reloads.
- Designed the system to support extensibility for region-specific crop patterns and future ML model upgrades.

**EI-matador: Financial Assistant Dashboard** Feb 2025 – April 2025

- Created an AI-driven finance dashboard using **Next.js**, **Tailwind CSS**, **Firebase Functions (TS)**, and **Gemini API**.
- Integrated **Langchain**, **Redis**, **Firestore** for memory/context, with APIs like **Alpha Vantage**, **Plaid**.
- Enabled real-time financial query handling and insights generation with dynamic prompt chaining.
- Designed modular architecture to allow addition of new financial APIs or AI engines.
- Built logging and analytics system with **Langfuse** for prompt behavior monitoring and system debugging.

**Podcast Streaming Service (MERN Stack)** April 2025 – Present

- Built a full-featured podcast platform using **MongoDB**, **Express.js**, **React**, **Node.js**.
- Included features like **auth**, **upload/stream**, **search**, **playlists**, and **RESTful APIs**.
- Implemented **JWT-based** authentication and role-based dashboard views for creators and users.
- Designed mobile-responsive frontend with dynamic filtering and episode queuing.
- Enabled podcast data persistence and update logic via Express middleware and custom Mongoose schemas.

## Technical Strengths

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**Languages:** Java, JavaScript, HTML/CSS, Python, MySQL

**Frameworks and Libraries:** React, Spring Boot, Tailwind CSS, Bootstrap, Pandas, NumPy, Scikit-Learn, TensorFlow

**Developer Tools:** Git, VS Code, AWS

## Achievements

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

## Certifications

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- **Ethnus MERN Stack Developer**
- **Ethnus AWS Solutions Architecture Programme**