Rajeev Ranjan

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Education

VIT Bhopal University, Bhopal   *2022 – 2026*
Bachelor of Technology, Computer Science and Engineering (Specialization in E-commerce Technology)
Current CGPA: **8.09**

Technical Strengths

Languages: Java, Python, MySQL, PostgreSQL

Frameworks and Libraries: Spring Boot, Pandas, NumPy, Scikit-Learn, PyTorch

Developer Tools: Git, Amazon Web Services, Power BI

Projects

Agrify   *January 2025*
- Developed a machine learning-based web application using **Random Forest Classifier** to recommend optimal crops based on soil and climate data inputs.
- Engineered a **Flask API** integrated with **AJAX** for seamless real-time predictions, paired with a responsive frontend using **Bootstrap**.
- Leveraged **Pandas**, **NumPy**, and **Joblib** for efficient data preprocessing, model training, and optimized inference performance.
- Implemented asynchronous form submission using **jQuery**, enhancing user experience by enabling smooth interactions without page reloads.

EI-matador: Financial Assistant Dashboard   *July 2025*
- Developed an SSR financial dashboard using **Next.js** and **TypeScript**, powered by serverless **Firebase Functions** and the **Gemini API**.
- Orchestrated complex AI workflows with **Langchain**, using **Redis** for low-latency caching, and monitored performance and costs with **Langfuse**.
- Implemented secure user authentication with **JWT** and integrated APIs like **Plaid** and **Alpha Vantage** for comprehensive financial insights.
- Designed and implemented a responsive, component-based UI using **Tailwind CSS** to ensure an intuitive and seamless user experience.

SpamCheck: SMS Spam Detection   *August 2025*
- Implemented a complete **NLP** pipeline using **NLTK** for text preprocessing and **Scikit-learn** to perform TF-IDF vectorization on SMS data.
- Trained and evaluated a **Multinomial Naive Bayes** classifier, achieving high precision and recall in distinguishing spam from legitimate messages.
- Deployed the trained model to **Heroku** using a lightweight **Flask** API and serialized the final model with **Joblib** for efficient loading.

Achievements

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

Certifications

- Oracle Cloud Infrastructure Data Science Certification
- Oracle Cloud Infrastructure GenAI Certification