**Rajeev Ranjan**

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# EDUCATION

# VIT Bhopal University, Bhopal *2022 - Present*

Bachelor in Technology

Computer science and Engineering (specialization in E-commerce)

Current CGPA: 7.98

# PROJECTS

**Crop Recommendation System | Flask, Scikit-Learn, AJAX, Bootstrap, Joblib, Pandas**

**Jan 2025 – Present**

• Developed an **ML-powered web application** that recommends optimal crops based on soil and weather conditions using a **Random Forest Classifier**.  
• Built a **Flask API** to process user inputs and return real-time crop predictions asynchronously using **AJAX**.  
• Designed a **responsive UI** with **Bootstrap**, ensuring an intuitive and user-friendly experience.  
• Implemented **Joblib** for model persistence, optimizing **inference speed and efficiency**.  
• Utilized **Pandas & NumPy** for **data preprocessing**, enabling accurate predictions based on soil properties and climate factors.  
• Integrated **real-time form handling** with **JavaScript & jQuery**, eliminating unnecessary page reloads.

# TECHNICAL STRENGTHS

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

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

**Developer Tools**: Git, VS Code

# ACHIEVEMENTS

* Cleared TCS CodeVita (Season 12) Round 1
* 5 star In Java on Hackerrank platform

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