Rajeeva Lochana

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Professional Summary

Final-year B.Tech Computer Science student specializing in Artificial Intelligence and Machine Learning with strong foundations in algorithms, data structures, and model optimization. Experienced in building and deploying AI systems, machine learning pipelines, and OpenAI-powered applications. Skilled in Python, TensorFlow, scikit-learn, FastAPI, and cloud technologies. Adept at translating research models into practical business solutions with a disciplined, analytical, and results-oriented approach.

Education

VIT Bhopal University   **Aug. 2022 – May 2026**
B.tech Computer Science and Engineering (spec. Artificial Intelligence & Machine Learning)
CGPA: 7.64

Delhi Public School Bangalore North   **April 2020 – May 2021**
Higher Secondary: 89%

Delhi Public School Bangalore North   **April 2018 – May 2019**
Secondary: 89%

Experience

AI Engineer Intern
Saksham Systems & Technologies Pvt Ltd   *Oct 2025 – Present*

- Contributed to developing an AI-powered CRM platform integrating OpenAI GPT-4o, Twilio Voice, and Zapier automation for intelligent lead management.
- Built and tested an AI chatbot prototype using OpenAI GPT-4o with a RAG pipeline for context-aware responses from company data.
- Conducted tool cost and performance analysis for OpenAI, Twilio, and MongoDB, optimizing stack decisions for MVP.
- Built and tested OpenAI API integrations in Node.js, validating latency, error handling, and cost optimization for scalable deployment.
- Collaborated on AI-driven wireframes in Figma, defining chatbot, voice, and analytics zones for CRM dashboard UX.

Projects

Smart Agricultural Support System ⧉ | *Python, JavaScript, HTML, CSS, Node.js, FastAPI, Vs code*

- Designed and developed an interactive website featuring a Leaflet.js map interface, enabling farmers to select locations to auto fetch soil parameters and live weather data, while also accessing a marketplace to list, buy, and sell agricultural products. Integrated a chatbot trained to answer queries in major Indian languages for soil health, crop guidance, and market pricing.
- Built and deployed a Random Forest Classifier for crop recommendation based on soil, climate, and rainfall features
- Developed backend using FastAPI and Node.js to handle predictions, marketplace operations, and chatbot interactions.

AI Intrusion Detection System ⧉ | *Python, XGBoost, scikit-learn, Pandas, NumPy, NSSM, Jupyter*

- Developed a real time Intrusion Detection System(IDS) service that continuously monitor network traffic flows for anomalies.
- Designed and implemented a multi-class intrusion detection system using XGBoost, achieving 92% test accuracy on CICIDS2017 datasets.
- Developed as a Windows background service to process live network flow data, automatically making predictions and logging results for intrusion detection
- Implemented robust preprocessing pipelines including feature encoding, scaling, and missing data handling to enable efficient real-time inference.

Technical Skills

Languages: Java, Python, SQL
Cloud & DevOps: AWS, Docker, Git, GitHub
Machine Learning: scikit-learn, TensorFlow, PyTorch, Keras, Pandas
Web & Databases: HTML, CSS, JavaScript, Node.js, React.js, RESTful APIs, FastAPI, MySQL, MongoDB
Tools & Platforms: LangChain, Postman, Visual Studio, JetBrains (IntelliJ, PyCharm)

Certifications

- *IBM* - Machine Learning with Python
- *IBM* - Full-Stack JavaScript Developer
- *University of Michigan* - Applied Machine Learning in Python