Rajeeva Lochana

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Professional Summary

Enthusiastic final-year B.Tech Computer Science student specializing in Artificial Intelligence and Machine Learning, with strong foundations in algorithms, data structures, and statistical modeling. Experienced in Python, TensorFlow, scikit-learn, and building end-to-end machine learning pipelines. Skilled in Java, JavaScript, MySQL, and collaborative development using Git and agile practices. Passionate about applying technology to solve real-world problems, with interests in AI, full-stack development, and web technologies. A creative and disciplined team player committed to continuous learning.

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%

Projects

Gold Price Prediction | *Python, scikit-learn, numpy, pandas, Jupyter*

- Developed an time series forecasting model using Python, to predict gold price using historical data.
- Implemented automated parameter selection (p, d, q) using ACF/PACF plots and AIC criterion, achieving 61% improvement in RMSE over baseline models.
- Built and validated ARIMA(0,2,2) model with residual analysis, performing extensive model validation to ensure accuracy and stability of results, achieving MAPE less than 2% prediction error.
- Generated actionable investment insights including buy/sell/hold signals and risk assessment metrics for portfolio optimization.

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, Keras, FastAPI, Flask, Streamlit
Web & Databases: HTML, CSS, JavaScript, Node.js, React.js, RESTful APIs, MySQL, MongoDB
Tools & Platforms: Hadoop, Apache Flume, Postman, Visual Studio, JetBrains (IntelliJ, PyCharm)

Certifications

Machine Learning with Python
IBM

Applied Machine Learning in Python
University of Michigan

Full-Stack JavaScript Developer
IBM