Mohith Butta

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Summary

Passionate and driven aspiring AI Engineer with a strong foundation in Machine learning, Deep Learning, and NLP. Skilled in Python, data preprocessing, and model development using frameworks such as Scikit-learn, Pytorch, and TensorFlow. Interested in applying technical expertise to solve real-world problems and contribute to impactful AI solutions. Committed to continuous learning, research-oriented thinking, and professional growth in the field of artificial intelligence and innovation.

Work Experience

AI/ML Intern - ElevateLabs Apr 2025 - May 2025

- Conducted comprehensive exploratory data analysis (EDA) on structured datasets, utilizing Matplotlib and Seaborn to visualize distributions, correlations, and patterns that informed feature engineering decisions
- Implemented multiple supervised learning algorithms including Logistic Regression, Decision Trees, Random Forest, and Gradient Boosting (XGBoost) to solve business problems, conducting comparative analysis to identify optimal solutions.
- Applied ensemble learning techniques combining multiple algorithms to improve prediction robustness and reduce overfitting, resulting in 10-15% improvement in validation metrics.
- Developed a comprehensive stock price prediction system leveraging LSTM networks and time-series analysis to forecast market trends.
- Optimized model performance through Grid Search and Randomized Search for hyperparameter tuning, achieving optimal precision-recall trade-off to minimize false positives while maximizing fraud detection for credit card fraud detection model.

Projects

Stock Market Prediction

Implemented a Long Short-Term Memory (LSTM) neural network to predict stock prices using historical data from the Yahoo Finance API (yfinance). The predictions and stock data are visualized through an interactive web application built with Streamlit. Users can input a stock ticker, select a date range, and configure model parameters to view historical data, model performance, and future price predictions.

Credit Fraud Detection

Implemented anomaly detection algorithms (Isolation Forest, Local Outlier Factor) to identify fraudulent credit card transactions, achieving higher precision while maintaining low false positive rates for production deployment

Skills

Programming Languages	Python, C, SQL, HTML, CSS
Libraries and Frameworks	Scikit-Learn, Tensorflow, Pytorch, Streamlit, Flask, Django, Pandas, Numpy, Matplotlib, Seaborn
Databases	MySQL, PostgreSQL, MongoDB

Education

2023-2027 B.Tech in Computer Science and Engineering **Dayananda Sagar University** (GPA: 8.16/10)