Geetha Reddy Bommareddy

AI/ML Engineer

geethareddybommareddy1456@gmail.com
Linkedin
Portfolio
+1(470)-322-6858
Atlanta, Georgia

AI/ML Engineer with 4+ years of experience designing, deploying, and scaling production-grade machine learning systems in financial services and risk analytics. Proven expertise in fraud detection, real-time inference, feature engineering, MLOps, deep learning, LLM-powered applications and cloud-native ML pipelines.

Core Skills

Machine Learning & GenAI: Linear Regression, Logistic Regression, Random Forest, XGBoost, LightGBM, CatBoost, Gradient Boosting, Decision Trees, SVM, KNN, Time Series Forecasting (Prophet, ARIMA), LangChain, RAG (Retrieval-Augmented Generation), GPT, Hugging Face Transformers, BERT

Deep Leaning & AI Modeing: PyTorch Lightning, TensorFlow, CNNs, RNNs, LSTMs, Transformer Architectures

MLOps: MLflow, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins), Model Deployment & Monitoring

Cloud Platforms & Data Platforms: AWS (SageMaker, Lambda, EC2, S3, Glue), Azure Machine Learning, Databricks, Snowflake, ETL & ELT Pipeline, Airflow, SQL (MySQL, PostgreSQL), NoSQL (MongoDB, DynamoDB), Tableau, Power BI, Plotly, Matplotlib, Seaborn, Dash, Advanced Excel

Programming & Development: Python, Pandas, NumPy, JupyterLab, Scikit-learn, PyTorch, TensorFlow, FastAPI, Flask, Git, GitHub

Certificates: AWS CERTIFIED DATA ENGINEER – ASSOCIATE

Work Experience

AI/ML Engineer   Jan 2024 - Present

JP Morgan Chase & Co. | Atlanta, GA

• Built and deployed real-time fraud and risk scoring models using XGBoost and PyTorch, processing 100K+ transactions/day and reducing inference latency from 9s to <3s.

• Developed streaming ML pipelines with PySpark, Kafka, and AWS, enabling continuous feature engineering and real-time alerting for fraud operations.

• Designed LLM-powered RAG applications (GPT, Hugging Face, FAISS) to summarize regulatory and investigation data, reducing analyst research cycles to same-day turnaround.

• Productionized ML services using Docker, Kubernetes (EKS), and SageMaker, implementing model versioning, monitoring, and explainability (SHAP) in regulated environments.

Data Engineer - (ML & Analytics)   May 2020 - Jul 2022

LTIMindtree | India

• Developed anomaly detection and fraud models using Autoencoders and Isolation Forest, identifying 8,200 + suspicious events per quarter and improving AIML compliance.

• Built NLP pipelines with Hugging Face and spaCy to classify and summarize customer compliants, cutting manual review time from 4 hrs to 30 mins

• Implemented Time-series forecasting models (LSTM, ARIMA, Prophet) to predict cashflows across 120+ accounts, improving liquidity planning accuracy.

• Automated ML pipelines and MLOps workflows using Databricks, MLflow, Docker and AWS reducing data preparation effort by 100+ hours/month.

Education

Master of Science in Information Systems – Trine University   Aug 2022- Dec 2023