Adarsh Gogineni

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WORK EXPERIENCE

Robinhood — **New York City, NY**
Application Engineer – Compliance and Legal Systems — *February 2025 – Current*

LegalOps LLM: Invoice Review & Cost Savings

- Designed and built an LLM-based invoice classification system using Python and AI/ML APIs, projecting 10-20% reduction in manual review time and ~ $250K in cost savings on $65M annual external legal spend.
- Developed specialized AI agents (LLM-Summarizer, LLM-Judge, LLM-Reviewer) to automate document analysis, compare classifications against billing rules, and detect patterns across legal operations workflows.
- Orchestrated end-to-end data pipelines using Workato, Airflow, and Spinner for ingesting invoice data from CounselLink APIs, integrating LLM outputs into the legal billing workflow via REST APIs, webhooks, and event-driven integrations.

Global Relay Anomaly Detection (GRAD)

- Implemented anomaly detection solutions for compliance supervision metrics, configuring alerting infrastructure with Slack and PagerDuty integrations for rapid incident response and issue triage, reducing SLA to 24 hours.
- Maintained Airflow DAGs and secure data ingestion jobs (Python/SFTP/S3) with AES decryption logic, ensuring data SLAs were met for daily ThirdEye alert evaluations and regulatory inquiry management.
- Authored PySpark transformation scripts to process Global Relay metrics reports, enforcing data integrity validation and managing ingestion into Pinot for anomaly detection queries.

Client: CDW — **Chicago, IL**
Data Engineer — *March 2022 – Dec 2024*

- Developed and optimized Big Data ETL pipelines in SSIS and Azure Data Factory, preprocessing 1 billion sales records for ML training with TensorFlow and Keras, enhancing model performance by 9%.
- Built REST API integrations and SQL transformations on 500M+ customer records using Python (Pandas, NumPy, Scikit-learn), boosting predictive analytics accuracy by 5%.
- Automated cloud-based ML deployments on AWS with Docker and Kubernetes, achieving 15% reduction in data schema update times and improving CI/CD pipeline efficiency.

LIGL — **Austin, TX**
Application/Data Engineer — *May 2020 – March 2022*

- Administered Exterro eDiscovery platform and designed Python scripts to consolidate data from 10+ sources into interactive dashboards, improving data integration and analytics efficiency.
- Automated data processing and PII extraction workflows ensuring compliance with data privacy principles, resulting in 20% improvement in data quality for downstream applications.
- Resolved 100+ support tickets related to SQL server maintenance and system security, achieving 99% uptime and ensuring reliable data access for decision-making.

TECHNICAL SKILLS

Python, JavaScript, SQL, REST APIs, Webhooks, Git, TensorFlow, PyTorch, Keras, React, ServiceNow, Docker, Kubernetes, Airflow, PySpark, AWS, Microsoft Azure, GCP, OpenAI API, Anthropic API, LLM/AI Integration, Tableau, Hugging Face, Jira

PROJECTS

Text-to-ESQ Generation in Healthcare | Stevens Institute of Technology — *January 2024 – February 2025*

- Developed transformer-based NLP models (BERT, GPT) to generate ElasticSearch queries from natural language, increasing query accuracy by 15% for medical records retrieval.
- Created Text-to-ESQ dataset of 10k+ template questions using automatic generation and manual annotation, improving query generation precision by 20%.

PaperPal IQ | Link to Demo — *June 2025 – December 2025*

- Built full-stack AI-powered research paper summarization tool using Next.js, TypeScript, Supabase, and OpenAI GPT-4o-mini API that generates audience-tailored summaries at five complexity levels.
- Implemented secure document management with PDF upload, text extraction, and RAG-based chat functionality; designed PostgreSQL schema with Row Level Security policies for user data isolation and rate limiting.

EDUCATION

Stevens Institute of Technology — **Hoboken, NJ**
Master of Science (M.S.) in Machine Learning | **GPA: 3.9** — *Graduation Date: May 2026*
Relevant Coursework: Machine Learning, Data Mining, Web Programming, Deep Learning, Natural Language Processing (NLP)

Rutgers University, School of Engineering — **New Brunswick, NJ**
Bachelor of Science (B.S.) Computer Engineering — *Graduation Date: May 2020*
Minor in Computer Science | **Honors**: *Magna Cum Laude*, *Dean's List*
Relevant Coursework: Software Engineering, Operating Systems, Data Management, Algorithms, Numerical Analysis, Intro to AI