

ABHINAV ADITYA

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EDUCATION

Northeastern University

Master of Science, Data Analytics Engineering

Boston, MA

August 2024 - April 2026

Manipal University Jaipur

Bachelor of Technology, Computer and Communication Engineering

Jaipur, India

June 2018 - June 2022

SKILLS

Applied AI / LLMs:	LLMs & SLMs, RAG, Document Processing, Chunking & Retrieval, Multi-Agent Orchestration, Vertex AI Agent Builder, Gemini 3 Pro, NER & Extraction, Fine-Tuning, LangChain, LangGraph, Vector DBs (Pinecone)
Eval & Monitoring:	Model Evaluation, precision@K Benchmarking, A/B Testing, Drift Detection, Automated Retraining, Prometheus, Grafana, MLflow, SHAP
Infrastructure & MLOps:	Docker, Kubernetes, CI/CD, GitHub Actions, Airflow, Terraform, RESTful APIs, FastAPI
Cloud Platforms:	GCP (Vertex AI, Cloud Run, BigQuery), AWS (EC2, S3)
Data Engineering:	ETL Pipelines, SQL, Spark, Kafka, Statistical Modeling, Time-Series Modeling, Feature Engineering
Deep Learning & NLP:	PyTorch, TensorFlow, Hugging Face, Transformers, SentenceTransformers, NLTK
Programming & Libraries:	Python, SQL, C++, JavaScript, TypeScript, Bash, scikit-learn, Pandas, NumPy, Plotly, Seaborn

EXPERIENCE

Software Development Engineer - Applied AI & Data

Bengaluru, India

Radius

June 2023 - June 2024

- Shipped a **production GenAI agent** over the **MLS listing API**, letting agents query property details in natural language; caching cut response latency **40%** (**5s** → **3s**).
- Created **Metabase** dashboards on **MySQL** to monitor housing-sales and subscription metrics, surfacing usage patterns that drove product experiments.
- Ran **A/B testing and funnel analysis** across **1,000+ users**, driving a **19% lift in sign-ups** and **17% increase in lead conversion**.
- Led a front-end revamp of the CRM in **Next.js**, **state management with Redux**, integrating **RESTful APIs**, partnering with **product stakeholders** to define and review **success KPIs** ahead of each release.

Software Development Engineer - DevOps & Infrastructure

Bengaluru, India

Radius

June 2022 - June 2023

- Established a **CI/CD pipeline** with **GitHub Actions** (**78.3% test coverage**), cutting build time **57%**.
- Instrumented **Prometheus** telemetry across **Docker** services for **real-time anomaly detection** on **Radius Rooms**, a WebRTC platform scaled to **500+ MAUs**.

PROJECTS

Settl - Autonomous AI Invoice-Recovery System

In Progress

- Architected a **multi-agent system** to autonomously recover unpaid invoices, a **5-stage pipeline** on **GCP Vertex AI Agent Builder** with **Gemini 3 Pro**; shipped the deterministic **strategy agent and compliance gate** (28 passing tests).
- Designed a **source-agnostic pipeline** normalizing invoices from **multiple formats into a canonical schema**, so new sources plug in without touching agent logic.
- Logged every agent decision to an **audit trail** for evidence and reconciliation; building toward a production pilot on **outcome-based pricing**.

Workhuman HR Analytics Capstone

Nominated - Ferretti & Yamamura Award Jan 2026 - Apr 2026

- Built a **4-stage LLM document-processing pipeline** over **1,000+ unstructured records**; **Llama-3-8B** for **NER + behavioral extraction**, **HDBSCAN** clustering, **Claude-seeded taxonomy**; with **SLM/LLM routing** for an approximate **10x cost cut**.

CiteConnect

Presented at Google Expo, Cambridge Sep 2025 - Dec 2025

- Engineered a production **MLOps pipeline** (**GitHub Actions**, **Docker**, **Airflow**), deploying (**MiniLM-L6-v2**, **SPECTER2**) to **GCP Cloud Run / Kubernetes** with **drift-triggered retraining**.
- Developed a **RAG retrieval layer** over **Pinecone**, indexing **100K+ documents** with **hybrid semantic + citation-graph search** to power context-aware LLM explanations.

HONORS & OPEN SOURCE

- 1st Place, Data Mining Hackathon**, Northeastern (2024); led team analysis of a real-world LA crime dataset, outperforming all teams. Open-sourced **CiteConnect**; created **BIBOT**, a LangChain multi-agent BI tool, in a hackathon sprint.