Yamin Hossain

AI Developer | Data Scientist | RAG Specialist

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SUMMARY

Results-oriented AI Developer with a strong foundation in **Retrieval-Augmented Generation (RAG)**, **LLM Agents**, and **Full-Stack AI integration**. Experienced in building production-grade pipelines, deploying autonomous agents, and optimizing ML models. Seeking to leverage expertise in Python, LangChain, and Cloud Engineering to drive innovation in software engineering roles.

EDUCATION

Vellore Institute of Technology, AP, India
B.Tech in Computer Science (Data Analytics)
Graduated: July 2025   **CGPA: 8.36/10**

EXPERIENCE

Join Venture AI — *Dhaka, BD*
Junior AI Developer — *Dec 2025 – Present*

- Developing enterprise **RAG systems** and **Chatbots** using LangChain and Vector Databases for automated client support.
- Engineering autonomous **AI Agents** to execute complex workflows, reducing manual data entry tasks by 40%.
- Collaborating with cross-functional teams to deploy NLP solutions using CI/CD pipelines.

Code Casa — *Remote*
Data Science Intern — *Feb 2024 – Mar 2024*

- Built fraud detection models achieving **97% precision**, significantly reducing false positive rates.
- Optimized CNN architectures for demographic prediction, improving inference speed by **20%**.

TECHNICAL SKILLS

- **Languages:** Python, SQL, TypeScript, Bash, R, C++
- **AI & GenAI:** LangChain, RAG Pipelines, LLaMA 3, OpenAI API, HuggingFace, AI Agents
- **Machine Learning:** PyTorch, TensorFlow, XGBoost, Scikit-learn, Computer Vision, Forecasting
- **Data & DB:** MongoDB, PostgreSQL, Pinecone, ChromaDB, Redis, DuckDB
- **DevOps:** Docker, GitHub Actions, MLflow, N8N, Streamlit, Vercel, GCP

KEY PROJECTS

- **CortexAI: Multimodal RAG System** ⌨
  Stack: LangChain, LLaMA 3, ChromaDB, Streamlit
  Developed a hybrid RAG platform capable of analyzing text, images, and video. Integrated a **"YouTube Analyst"** agent that autonomously fetches transcripts and generates summaries using **BLIP-2** and semantic search.

- **Real-Time Retail Forecasting** ⌨
  Stack: Redis Streams, XGBoost, MLflow, Docker
  Engineered a streaming data pipeline handling micro-batches for demand forecasting. Implemented **automated retraining** workflows via GitHub Actions and tracked model versions with MLflow.

- **FinanceAI: Agentic Platform** ⌨
  Stack: Next.js, Groq (LLaMA), MongoDB
  Built a full-stack financial dashboard featuring **AI-driven market insights**. Leveraged Groq for ultra-fast inference to analyze stock trends and implemented secure user authentication.

- **HTCAPE: AI Text Detection (Thesis)**
  Stack: TensorFlow, Transformers, LIME
  Designed a hybrid **Transformer + CNN** architecture to detect AI-generated text with **97.01% accuracy**. Utilized LIME to provide explainable insights into model decision boundaries.

- **DVD Rental Analytics** ⌨
  Stack: DuckDB, Plotly, SQL
  Created a local-first analytics tool using DuckDB to process business logs, offering interactive visualizations for customer retention and revenue tracking.

CERTIFICATIONS

- **Google Data Analytics** Professional Certificate
- **Google Cloud** Computing Foundations
- **Python for Everybody** (Coursera)
- **Data Science Training** (Truscholar)

HONORS & AWARDS

- **I-SEE International Scholarship**: Competitive merit-based scholarship at VIT-AP University.
- **Hackathon Organizer**: Core Management Team for CSI VIT-AP Chapter technical events.