

Md Lutful Kabir

AI Engineer | GenAI & Agentic Systems | MLOps

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SUMMARY

- AI Engineer building LLM agents end-to-end – from the LangGraph pipeline to the Postgres schema to the Grafana dashboard.
- Comfortable in async Python (FastAPI, SQLAlchemy) and the GenAI tooling around it (LangChain, MLflow, Vertex AI). I also deploy and run the systems I build into, including a production Odoo ERP environment. Published NLP paper, IBM Data Analyst certified, HackerRank SQL certified.

EDUCATION

American International University - Bangladesh

Dhaka, Bangladesh

BSc in Computer Science and Engineering | GPA 3.89

Graduated May 2026

- Coursework: Artificial Intelligence, Machine Learning, Data Science, Data Analytics, SQL.

EXPERIENCE

QualFix

Dhaka, Bangladesh

AI Engineer

January 2026 – Present

- Built an email automation agent in **LangGraph** that classifies incoming sales emails and extracts structured records from PDFs, images, and spreadsheets in a single **Gemini 2.5 Pro** call. The output schema is enforced with Pydantic, so the rest of the pipeline doesn't have to parse free text.
- Wired up the observability stack around it: **MLflow 3.x** for per-email traces and token cost, **Prometheus** + **Grafana** for queue depth, p95 latency, and monthly billing. The service runs on FastAPI and async PostgreSQL inside Docker Compose.
- Deployed and configured **Odoo 19** Community as the internal management and CRM system across two legal entities on self-hosted Docker infrastructure via **Dokploy**, covering the CRM → Sales → Project → Invoicing pipeline, custom branded modules, multi-currency support, and banking integration.
- Led an AI agent-assisted migration of 14 years of historical business data from **Salesforce** into Odoo, reconciling schema and structural differences between the two systems; completed in 4 weeks.
- Working on a separate POC for voice agents handling inbound and outbound calls (**Retell AI**, Gemini, OpenAI, ElevenLabs); currently in review.

AI Engineer (Remote, part-time)

July 2025 – December 2025

- Took an internal customer-matching system from **37% to about 88%** accuracy by reworking the matching logic and cleaning the underlying data.
- Cleaned and structured contact data for medical organisations before loading into Postgres for downstream queries.

Tech Wing's Lab (Remote)

Dhaka, Bangladesh

AI/ML Researcher

December 2024 – June 2025

- Co-authored a peer-reviewed paper on phishing website detection ([ICERIE-25](#)). Random Forest with TF-IDF and Count Vectorizer features performed best on the imbalanced dataset.
- Drafted deep-learning architectures (RNN/LSTM) for real-time detection as a follow-up direction.

PROJECTS

- **AI-Powered Job Board** [\[GitHub\]](#) – Next.js + Postgres job board with an LLM that ranks applicants against the job description. Background processing and email notifications run on Inngest.
- **Unintended Bias in Toxicity Classification** [\[GitHub\]](#) – NLP models for the Jigsaw Kaggle challenge, evaluated with fairness-aware metrics rather than plain accuracy.

- **Stack Overflow Job Survey (IBM Capstone)** [\[GitHub\]](#) – EDA and predictive modelling in Python and SQL, dashboards in IBM Cognos.

CERTIFICATIONS

IBM Data Analyst Professional Certificate [\[Credential\]](#)

May 2024

HackerRank SQL (Basic & Intermediate) [\[Credential\]](#)

December 2025

TECHNICAL SKILLS

- **GenAI & Agents:** LangGraph, LangChain, Gemini, Vertex AI, OpenAI, multimodal prompting, Pydantic structured output, basic RAG.
- **Voice AI:** Retell AI, ElevenLabs, Gemini, OpenAI.
- **ML / NLP:** scikit-learn, Random Forest, RNN, LSTM, Transformers, TF-IDF, fairness-aware evaluation.
- **MLOps:** MLflow, Prometheus, Grafana, Docker, Docker Compose, CI/CD.
- **Backend & Data:** Python (asyncio, Pydantic), FastAPI, async SQLAlchemy, PostgreSQL, SQL, Pandas, NumPy, ETL.
- **Systems & Infra:** Odoo 19 ERP (deployment & customisation), Dokploy, self-hosted Docker infrastructure, Linux.
- **BI & Cloud:** Power BI, Tableau, IBM Cognos, Matplotlib, Seaborn; GCP, AWS, Microsoft Graph API.