

# Humayan Kabir



## Contact

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## Profile

Experienced Tech professional in AI, Big Data, Software Development, DevOps, and Real-Time Monitoring Solutions. Skilled in building deep learning models, LLM, GenAI, Agentic RAG, Cloud tools, and Agentic systems, developing end-to-end data pipelines. Also experienced in containerized deployments, monitoring, and visualization tools, and mentoring team members. Passionate about bridging AI research and real-world applications, especially in global and culturally diverse teams.

## Skills

- **Machine Learning & AI:**
  - Agentic RAG, LLM & GenAI integration.
  - Cloud-based inference, Cloud automation with LLMs (LangChain, FAISS, S3, AWS).
  - Deep learning, GAN, CNN, Transformers.
  - Computer Vision, Symbolic Regression.
- **Big Data Pipelines and Workflow Orchestration:**
  - Apache Spark, Apache Airflow, ETL Design.
  - HDFS, Distributed Processing.
- **Database and Backend:**
  - SQL: MySQL, PostgreSQL.
  - NoSQL: MongoDB.
  - API & middleware (FastAPI, Django REST).
- **Web and Mobile Development:**
  - Full-stack and multi-platform apps (Angular, Django REST).
  - CMS and full-stack solutions.
- **Real Time Monitoring and Visualization:**
  - End-to-end real-time monitoring & Alert Generation (Zabbix, Grafana).
  - High-availability and parallel-processing architecture.
- **DevOps and Engineering Practices:**
  - Git, Docker, Agile Methodologies.
  - Unix Administration, Shell Scripting.
- **Soft Skills:**
  - Fluent in English with collaboration experience with teams across Asia, Europe, and North America.
  - Skilled in mentoring peers and junior engineers, fostering cooperative teams.
  - Adaptable to multicultural environments with a focus on continuous learning and reliability.

## Professional Experience

### Associate AI Solutions Engineer – Reliance Legal Services

#### Dhaka, Bangladesh (Oct 2025 – Present)

- Built an LLM-powered document generation system, reducing per-case formatting time from **30 minutes to under 1 minute**, directly optimizing performance across the practice.
- Designed and deployed an agentic RAG pipeline, enabling semantic search across historical briefs, contracts, and memos.

### Specialist OSS Developer (Associate) – Banglalink Digital Communication Ltd

#### Dhaka, Bangladesh (Jan 2023 – June 2024)

- Led deployment and optimization of high-availability monitoring systems, reducing **CPU** usage by over **20%**, **storage** by about **50%**, and **alert-processing** overhead by about **15%** (Zabbix, Grafana, MySQL, PostgreSQL).
- Mentored 3 new hires and accelerated onboarding through hands-on project coaching.

### Big Data Analyst (Contractual) – Banglalink Digital Communication Ltd, Dhaka, Bangladesh

#### Dhaka, Bangladesh (Oct 2022 – Dec 2022)

- Designed and deployed data pipelines and orchestration engines to provide stakeholders with the necessary KPIs (Apache Spark, Airflow).
- Explored and tested distributed and parallel Big Data/ETL tools in a data-driven environment, and tested acquired knowledge with peers (HDFS, Spark, Airflow, MySQL, Java, Python).

### Python DevOps Engineer – Shurjomukhi Solutions Ltd, Dhaka, Bangladesh

#### Dhaka, Bangladesh (Jan 2022 – Sep 2022)

- Developed containerized Django REST WebApps with MySQL and Docker in Agile workflows.
- Mentored 2 junior developers and business staff, aiding in effective in-house tool adoption.
- Collaborated with the Machine Learning team to research and develop ML models for in-house applications.

### Independent AI Projects (July 2024 – Present)

- Prototyped an Agentic RAG-based educational assistant to help improve teacher/student feedback and grades.
- Developed a transformer-based symbolic regression model (real + synthetic data), inspired by the AI-Feynman research.

### Academic Research Project: Real-Time Sign Language Detection, AI Use Case and Analysis

- Designed Deep Learning models (CNN, RNN, ResNet), created a Bangla Sign Language dataset.
- Implemented live sign-to-text translation and got user feedback on the most convenient Sign Language.

## Education

### North South University, Dhaka, Bangladesh (Jan 2022)

- Bachelor's in Computer Science and Engineering
- Majored in Machine Learning

## Language

- English – Fluent
- Bengali – Native