

MD. MAJIDUL ISLAM

AI & ML · GENAI · AGENTIC AI

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“Building intelligent systems that turn data into decisions and automation into advantage”

Education

Southeast University, Bangladesh

BSC. IN COMPUTER SCIENCE AND ENGINEERING

- CGPA: 3.66 / 4.00

Dhaka, Bangladesh

Oct. 2018 – Oct. 2022

Adamjee Cantonment College

HIGHER SECONDARY CERTIFICATE

- GPA: 5.00 / 5.00

Dhaka, Bangladesh

Aug. 2016

Muslim Modern Academy

SECONDARY SCHOOL CERTIFICATE

- GPA: 5.00 / 5.00

Dhaka, Bangladesh

May. 2014

Technical Skills

EDGE AI & GPU-ACCELERATED SYSTEMS

- Edge Platforms: NVIDIA Jetson
- Parallel Computing: CUDA, GPU memory hierarchy & optimization
- Model Deployment: TensorRT, ONNX Runtime, PyTorch, TensorFlow
- Performance Optimization: kernel fusion, batching, FP16/INT8 quantization
- Real-Time Inference: low-latency vision and sensor processing pipelines

LLM SYSTEMS & MULTI-AGENT ARCHITECTURES

- LLM Frameworks: Hugging Face Transformers, LangChain, LlamaIndex
- RAG Systems: retrieval design, embedding analysis, vector stores (ChromaDB, Pinecone etc)
- Multi-Agent Systems: CrewAI, LangGraph, task/tool-based agent orchestration
- LLM Ops & Evaluation: Phoenix, Langfuse (tracing, evaluation, cost/latency analysis)
- LLM APIs: OpenAI, DeepSeek, Groq, Ollama

ML INFRASTRUCTURE & PRODUCTION SYSTEMS

- Backend Services: FastAPI, Streamlit
- MLOps: MLflow, model versioning, experiment tracking
- CI/CD & DevOps: Docker, GitHub Actions, Jenkins
- Cloud Platforms: AWS, GCP, Azure

DATA & APPLIED MACHINE LEARNING

- Pandas, NumPy, Scikit-Learn

Work Experience

TulipTech Limited

AI/ML ENGINEER

Dhaka, Bangladesh

Aug. 2025 - Present

- Built and optimized Edge AI pipelines** on NVIDIA Jetson platforms for low latency inference using TensorRT, CUDA acceleration and FP16/INT8 optimizations
- Developed multimodal AI systems** combining vision, text and document understanding including OCR pipelines for structured and unstructured data
- Implemented Retrieval Augmented Generation (RAG)** using LangChain and CrewAI with vector databases for reliable knowledge grounding
- Designed and orchestrated multi-agent AI systems** using CrewAI and LangGraph for task decomposition, tool usage and collaborative workflows
- Fine-tuned and evaluated large language models** on domain-specific datasets using in-house GPU clusters, optimizing accuracy
- Implemented LLM observability and hallucination analysis** using Phoenix and Langfuse for prompt tracing, evaluation, latency and cost monitoring

Synova Information Systems Limited

AI PROGRAMMER DATA

Dhaka, Bangladesh

Mar. 2025 - Aug. 2025

- **Data Driven AI Solutions:** Built and optimized data driven AI solution with backend
- **AI Backend Development:** Create and Implement FastAPI backend for AI tools
- **Agentic AI Solution:** Designed multi-agent AI systems to perform autonomous reasoning and decision-making tasks
- **Big Data Processing:** Processed large datasets using tools like Pandas, PySpark for real time insights
- **MLOps Implementation:** Set up automated pipelines for model training, testing, deployment and monitoring using tools like MLflow, LlamaIndex
- **LLM Oriented Automation:** Automated reasoning, task execution, and content generation using large language models
- **Multi Agent Framework Integration:** Leveraged frameworks like LangChain, CrewAI and AutoGen to orchestrate collaboration between AI agents

TulipTech Limited

SOFTWARE ENGINEER(AI)

Dhaka, Bangladesh

Oct. 2022 - Mar. 2025

- **Designed and Deployed AI Solutions** using Python and FastAPI following MLOps best practices for scalable and maintainable machine learning workflows
- **Implemented End to End ML Architecture** for training, testing, deployment and monitoring, ensuring robust model life cycle management
- **Led Cloud & DevOps Integration** with Microsoft Azure to provision, monitor and optimize cloud-based AI infrastructure
- **Engineered FAST APIs and Data Architectures** maintaining performant, secure APIs and managing document based databases (MongoDB)
- **Contributed to Project Management** supporting agile delivery through cross-team coordination and CI/CD pipeline maintenance
- **Multi Agent Framework Integration:** Leveraged frameworks like LangChain, CrewAI and AutoGen to orchestrate collaboration between AI agents

Bangladesh Navy

OFFICER CADET

Bangladesh Naval Academy,

Bangladesh

Dec. 2016 - Mar. 2018

- **Leadership & Discipline:** Completed intensive military training, strengthening leadership, teamwork and decision-making under pressure
- **Maritime & Tactical Training:** Acquired hands on experience in naval operations, navigation and tactical combat strategies
- **Strategic Planning & Crisis Management:** Trained to operate effectively in high-stress environments, making quick and strategic decisions
- **Technical & Weaponry Knowledge:** Gained foundational knowledge in naval engineering, weapon systems and maritime technologies
- **Ethics & Professionalism:** Maintained strong discipline, integrity and commitment to service throughout military service

Extracurricular Activity

96.4 Spice Fm

RADIO JOCKEY

Dhaka, Bangladesh

Oct. 2020 - Oct. 2022

- Created content, wrote scripts and conducted live interviews with artists, entrepreneurs and public figures to drive audience engagement.
- Collaborated with producers and broadcast team to ensure smooth broadcasting, while maintaining a lively and energetic on air presence

Training and Certifications

PROFESSIONAL

- | | |
|------|--|
| 2025 | Oracle Certified Foundation Associate , Certified AI Foundation |
| 2024 | Agile Project Management Practitioner , Project Management |
| 2023 | Admin Official Certification , Project Management |
| 2022 | Cyber Security (Ethical Hacking) , Arena Web Security |

Oracle University

HP LIFE

monday.com

Dhaka, Bangladesh

TRAINING

- | | |
|------|---|
| 2022 | Industrial Machine Learning and Data Science with Python , Hr Venture Bangladesh |
| 2021 | Ethical Cracking and Hacking , SkillNation Bangladesh |

Dhaka, Bangladesh

Dhaka, Bangladesh

Projects

Agentic-RAG

HR POLICY CHATBOT

Dhaka, Bangladesh

2025

- An intelligent AI chatbot for Kazi Farms Group (KFG) policy documents powered by RAG (Retrieval-Augmented Generation), DeepSeek models and ChromaDB vector database.
- This system allows employees to search, understand and interact with policy documents in both English and Bangla—with full source attribution.

Sales forecasting (Big Data)

Dhaka, Bangladesh

AI SOLUTION – SALES FORECASTING

2025

- Developed a machine learning based sales forecasting system leveraging historical sales data, seasonal trends and external factors.
- Enabled data driven decision making for marketing, inventory and supply chain teams through predictive analytics dashboards.

Healthcare Data Automation Project

TulipTech Limited

AI AUTOMATION – NHS MEDICINE PARSER

2024

- Developed an automated system to parse and extract critical data from NHS medical records, improving healthcare data accessibility.

Drug Database Processing System

TulipTech Limited

AI DEVELOPMENT – DMD+D MEDICINE AI PROCESSOR

2024

- Created an AI based engine for analyzing drug metadata from DMD+D to enhance pharmaceutical data workflows and accuracy.

Care Home Personalized AI Healthcare System

TulipTech Limited

AI SOLUTION ARCHITECT & DEVELOPMENT – CARE HOME PLAN & AI AGENTS

2024

- Designed an AI driven care plan system with intelligent agents
- support personalized monitoring and recommendations for care home residents

Research_____

Multi Factor Authentication Kerberos

IEEE SEM Vol -12, 2024

INTERNET BANKING CYBER SECURITY IN BANGLADESH

Jan. 2024

- Multi factor authentication solutions for Bangladeshi Banks