

# Md. Majidul Islam

ARTIFICIAL INTELLIGENCE SPECIALIST · AI ENGINEER

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

## Summary

Skilled AI Engineer MLOps Expert with expertise in Python, FastAPI and cloud-based AI solutions and Automation. Strong background in AI development, DevOps, Automation and software engineering with a proven track record of successfully integrating Azure Cognitive Services, MongoDB and CrewAI to enhance conversational AI capabilities. Also Project management in monday.com, Jira with Automation with N8N, Make and Zapier.

## Work Experience

### Synova Information Systems Limited

AI PROGRAMMER DATA

Dhaka, Bangladesh

Mar. 2025 - Present

- **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

Bangladesh Naval Academy,

Bangladesh

OFFICER CADET

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

## 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

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## 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

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## Multi Factor Authentication Kerberos

IEEE SEM Vol -12, 2024

INTERNET BANKING CYBER SECURITY IN BANGLADESH

Jan. 2024

- Multi factor authentication solutions for Bangladeshi Banks

# Detailed Skills

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## ML & DL FRAMEWORKS

- PyTorch, TensorFlow, Keras, Scikit-Learn, Hugging Face Transformers, LLaMA models

## GEN AI & LLM TOOLING

- Hugging Face & Transformers, LangChain, LlamaIndex, CrewAI, LangGraph, Groq, OpenAI / DeepSeek APIs, Prompt Engineering, RAG,

**Vector Stores:** ChromaDB, Pinecone

## BACKEND, MLOPS & CLOUD

- FastAPI, Streamlit, MLflow, Docker, GitHub, Jenkins, CI/CD, GCP, Azure, AWS

## DATA SCIENCE

- Pandas, NumPy, Matplotlib, Scikit-Learn, Seaborn

## AUTOMATION & AGENTIC AI

- N8N, Make.com, Zapier, CrewAI, LangGraph, Task/Tool Agent Frameworks

# Education

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## Southeast University, Bangladesh

Dhaka, Bangladesh

BSC. IN COMPUTER SCIENCE AND ENGINEERING

Oct. 2018 – Oct. 2022

- CGPA: 3.66 / 4.00

## Adamjee Cantonment College

Dhaka, Bangladesh

HIGHER SECONDARY CERTIFICATE

Aug. 2016

- GPA: 5.00 / 5.00

## Muslim Modern Academy

Dhaka, Bangladesh

SECONDARY SCHOOL CERTIFICATE

May. 2014

- GPA: 5.00 / 5.00

# Extracurricular Activity

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## 96.4 Spice Fm

Dhaka, Bangladesh

RADIO JOCKEY

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