

Md Meftaul Haque Mishu

Full Stack Software Engineer & Data Scientist

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Summary

Over 11 years of experience in full-stack development, machine learning, and banking systems. Leading AI initiatives such as explainable credit scoring, intelligent data extraction, and automated customer support. Proficient in Java, Python, Spring, and LLMs with strong expertise in Islamic banking and scalable software design. Experienced in collaborating with remote teams and international clients. Passionate about teaching and sharing practical insights on AI and ML.

Core Expertise: Java • Python • JavaScript/TypeScript • Spring • Angular • Machine Learning • NLP • LLMs • AI Agents • FastAPI • AWS • Agile Development • Team Leadership

Experiences

Senior Principal Software Engineer (Data Scientist)

Dhaka, Bangladesh

Millennium Information Solution Ltd.

September 2018 – Present

- **AI Leadership:** Leading projects on Explainable Credit Scoring Systems, Agentic Data Extraction Pipelines, AI Agents for Code Review Agents, and Intelligent Customer Support Solutions.
- **Core Banking:** Leading Investment Risk Management System (IRMS) and Financing Origination System (FOS), previously led technical aspects and development of Investment Module, developed Cheque Requisition Module for Ababil Islamic Banking System
- **DevOps & Management:** Built Release Management System, MISL HalKhata workorder system, and Ababil Documentation Platform. Manage the development and deployment of these projects
- **Team Leadership:** Mentoring developers, conducting code reviews, and following agile methodologies

Founder & Maintainer (Personal Initiative - Part-time)

Dhaka, Bangladesh

Bangla.AI

October 2025 – Present

- AI-based math learning platform for children using React, Next.js, and Tailwind CSS
- Implementing personalized math learning experiences using LLMs and AI Agents

Professional Trainer (Weekly Sessions)

Dhaka, Bangladesh

Academy of Business Professional & Nerd Castle Ltd.

January 2023 – Present

- Teaching Data Science, Machine Learning, LLMs
- Mentoring students in AI project development and deployment

Senior Software Engineer (Remote, Part-time)

Vienna, Austria

3Spire Ltd.

2014 – 2024

- Managed international client projects.
- Developed full-stack applications using Spring Boot and Angular
- Deployed the software in AWS and optimized server costs.

Software Engineer

Dhaka, Bangladesh

Beshto Ltd.

2014 – 2017

- Built NLP solutions for content recommendation and sentiment analysis
- Developed Bangla text processing capabilities and administrative dashboards
- Managed AWS infrastructure and deployment optimization

Project Highlights

AI & ML Solutions

- **Credit Scoring System** – ML-based credit assessment with explainability features (Python, FastAPI, SHAP)
- **Agentic Data Extraction** – LLM-powered document processing pipeline (Python, Langchain, CrewAI)
- **Code Review AI Agent** – Automated code review system integrated with GitLab CI/CD (Spring Boot AI, Angular)
- **Customer Support AI** – Intelligent issue search and resolution system (Python, FastAPI, Weaviate)

Banking & Financial Systems

- **Investment Risk Management System (IRMS)** – Comprehensive risk assessment platform (Oracle APEX, PL/SQL)
- **Financing Origination System (FOS)** – End-to-end financing workflow management (Oracle APEX, PL/SQL)
- **Ababil Investment Module** – Islamic banking investment management system (Java, Spring Boot, Angular)
- **Cheque Requisition Module** – Streamlined cheque issuance and tracking (Java, Spring Boot, Oracle)

In-House Applications

- **MISL HalKhata** – Workorder management system with billing and analytics (Java, Spring Boot, Angular, PostgreSQL)
- **Release Management System** – Integrated GitLab, Trello, and issue tracking (Spring Boot, Angular)
- **School Meal Management System** – Multi-role meal ordering platform for Austrian schools (Spring Boot, Angular, PostgreSQL)
- **Employee Time Tracking System** – Enterprise workforce management solution (Spring Boot, Angular, PostgreSQL)

Content & Analytics

- **Sentiment Analysis Engine** – NLP-based content evaluation system (Python, scikit-learn)
- **Content Moderation System** – Multi-layered filtering for user-generated content (Python, spaCy)
- **European Football Analytics** – Real-time scoring and statistics platform (Spring Boot, Angular, PostgreSQL)

Education

Master's in Applied Statistics and Data Science
2019 – 2020

Jahangirnagar University

B.Sc in Computer Science & Engineering
2010 – 2013

University of Development Alternative

Higher Secondary Certificate (HSC)
2008

Bogra Cantonment Public School & College

Secondary School Certificate (SSC)
2006

Bogra Cantonment Public School & College