

Mushfiqul Islam Chowdhury

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Introduction

MSc Artificial Intelligence student with a background in software engineering and applied AI systems. Interested in intelligent automation and AI-assisted tools. Experienced in collaborative project work, testing, and documentation, and comfortable contributing in learning-focused environments through iterative improvement.

Education

University of Jyväskylä, M.Sc. in Artificial Intelligence Aug 2025 – Present

- Focus areas: AI systems, data ethics, and educational applications of AI

BRAC University, B.Sc. in Computer Science and Engineering Jan 2017 – Sept 2021

- Thesis: Real Time Action Recognition from Video Footage (Published in IEEE Xplore)

Experience

Software Engineer, Pipeline Bangladesh Ltd May 2022 – Aug 2025

- Built GenAI and RAG systems with OpenAI embeddings, Qdrant, and LangChain for improved retrieval.
- Designed and deployed AI based Cybersecurity services in collaboration with security and DevOps teams.
- Supported developers and participated in project planning discussions to help align tasks and team objectives.
- Applied multilingual communication and documentation practices to support global project partners.

Junior Software Engineer, Tirzok Private Limited June 2021 – Apr 2022

- Collaborated with diverse teams to develop and integrate new product features for clients.
- Supported internal communication and task coordination between backend and product design teams.

Junior Software Engineer, Part-time, Field Information Solutions Ltd (Field Buzz) Apr 2020 – May 2021

- Redesigned role-based access control in a client-facing dashboard by modularizing permission logic (create, update, delete), improving usability and operational security for enterprise teams.

Projects

Sales Chatbot sales-chatbot

- Developed a generative AI chatbot for personalized product recommendations and order tracking using behavioral and country-level buying data, built on a layered architecture powered by LangChain.
- Tools: Python, LangChain, OpenAI API, PostgreSQL

Food Anywhere Foodanywhere

- Built a multi-shop online ordering platform with real-time cart management, order processing, and store coordination, and designed REST APIs and backend services enabling seamless, dynamic customer interactions.
- Tools: Python, Django, REST API, SQLite

Technologies

Current Focus: Python, Go, Task Agent, LangChain, LangGraph, RAG, OpenAI API, Qdrant, DynamoDB, Redis, ETL, Kafka, Bash

Actively Following: Django, PostgreSQL, scikit-learn, PyTorch, TensorFlow, zenML, Docker, Git

Familiar Technologies: Odoo, Neo4j, SQLite, RabbitMQ, Nginx, MLflow, AWS SageMaker, Jira, Redmine, LaTeX

Language

Languages: English (Fluent), Bengali (Native), Finnish (Currently Learning)