

# Tanzir Hossain

AI Engineer — Computer Science Graduate

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## Overview

AI Engineer specializing in machine learning, natural language processing, and automation. Expertise in LLM fine-tuning, RAG pipelines, ML/DL model development, and AI workflow automation, bridging research with real-world deployment.

## Education

**Brac University**, Dhaka  
*B.Sc. in Computer Science*      2020 - 2024  
**CGPA: 3.40/4.00**

**M.E.H Arif College**,  
Gazipur  
*Higher Secondary (Science)*      2016 - 2018  
**GPA: 4.58/5.0**

## Skills

- Programming:** Python, JavaScript, C++, SQL
- Backend:** FastAPI
- Machine Learning:** TensorFlow, PyTorch, Scikit-learn, LangChain, LangGraph
- Database:** MySQL, PostgreSQL, Qdrant, FAISS, Airtable
- Tools:** Git, Docker, GCP, n8n, ONNX

## Projects

### • BanglaRAG - Retrieval-Augmented Generation

RAG pipeline combining FAISS vector search with Bangla document embeddings for accurate information retrieval and grounded answer generation.

[GitHub](#)

### • Agent Whisper App

Real estate platform using Softr, Airtable and n8n with agentic matchmaking and video generation from static images using FFmpeg on GCP.

[Demo](#)

### • Apply Job Agent

ML-driven candidate screening using resume parsing, text embeddings, and vector databases with PostgreSQL backend.

[Demo](#)

### • Medical QA with Generative LLMs

Generative language models for medical QA with hallucination mitigation and safety evaluation protocols.

[GitHub](#)

### • Game Recommendation Engine

BERT embeddings and LDA topic modeling with cosine similarity for personalized game recommendations.

[GitHub](#)

## Experience

- Join Venture AI**      *July 2025 – Present*  
**Junior AI Developer**
  - Developed ML models with TensorFlow and PyTorch; exported via ONNX for cross-platform use.
  - Fine-tuned LLMs using LoRA and Unslot for financial data analysis.
  - Automated AI workflows using n8n and created FastAPI endpoints.
- Time Research and Innovation LTD**      *Jan 2025 - Jun 2025*  
**AI & ML Research Intern**
  - Fine-tuned LLMs (Mistral-7B, LLAMA 3.1) using LoRA/QLoRA and PEFT.
  - Developed RAG pipelines for NLP-based QA.
  - Automated PDF parsing and OCR-based data extraction.

## Research

### • BanglaNewsClassifier

*Published in PLOS ONE, 2025*

Bangla news classification achieving 94% accuracy with BiLSTM-SVM stacking classifier on 118,404 articles.

### • AI-powered Legal Accessibility in Bangladesh

*Undergraduate Thesis, 2024*

Legal QA system with transformer-based retrieval and human-in-the-loop feedback.

## Achievements

- Dean's List Award**, BRAC University
- Academic Merit Scholarship**, BRAC University
- Peer Reviewer**, PLOS ONE Journal (NLP)
- Senior Executive**, BRAC University Computer Club

## Certifications

- ML with Tree-Based Models, DataCamp
- Cluster Analysis in Python, DataCamp
- Data Visualization in Tableau, DataCamp
- Cleaning Data in Python, DataCamp