

Tanzir Hossain

AI Engineer — Computer Science Graduate

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[GitHub/itsShrizon](https://github.com/itsShrizon) — [LinkedIn/tanzir-hossain-shrizon](https://www.linkedin.com/in/tanzir-hossain-shrizon) — tanzir.dev

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 *2020 - 2024*
B.Sc. in Computer Science **CGPA: 3.40/4.00**

M.E.H Arif College,
Gazipur *2016 - 2018*
Higher Secondary (Science) **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 Unsloth 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