

MUNAWAR MAHTAB ANSARY

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EXPERIENCE

Innospace Infotech Ltd.

Sep '25 – Present

Machine Learning Engineer

Dhaka, Bangladesh

- Shipped **Britto AI**, a **RAG** chatbot with **1,658** users across **2,057** sessions in its first 10 days. Try it live
- Built an OCR-to-structured-content pipeline that raised exam-question throughput from **600** to **1,500–2,000** per 8-hour shift.
- Built a **GPT-OSS-20B** QA system that detects and fixes errors in uploaded questions.

United International University (UIU) — AIMS Lab

Jul '26 – Present

Research Engineer Intern

Dhaka, Bangladesh

- Building **MonCare**, a private trilingual (Bangla/Banglish/English) mental-health support chatbot running fully on a local GPU, with a two-stage crisis-detection gate.
- Engineered its **RAG** pipeline (bge-m3 embeddings, **FAISS** over a 19K-item counseling corpus, cross-encoder rerank, local GPT-OSS-20B) with an output guard enforcing verified crisis helplines.

DataSoft

Feb '25 – Jun '25

Software Engineering Intern

Dhaka, Bangladesh

- Developed **Laravel/CodeIgniter** billing modules for Microfin360 Next, a microfinance platform.
- Built a department-wide **RAG** chatbot over internal microfinance documentation to speed up staff lookups.

BRAC University

Jun '24 – May '25

Student Tutor / Teaching Assistant

Dhaka, Bangladesh

- Taught Data Structures and graded labs and quizzes for **40** students per semester.
- Delivered **60+** hours of monthly one-on-one consultation and pre-exam review sessions.

TECHNICAL SKILLS

- **Languages:** Python, Java, C, SQL, JavaScript
- **ML & Deep Learning:** PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face, NumPy, Pandas, BiLSTM, GloVe, fine-tuning
- **LLM & GenAI:** RAG, prompt engineering, vector search, LLM agents, n8n, Whisper, GPT-OSS-20B, vision-language models
- **NLP:** Tokenization, seq2seq, ASR / speech-to-text, machine translation, low-resource language modeling
- **Software Engineering & Web:** Django, Laravel, CodeIgniter, REST APIs, HTML/CSS, AJAX, Git, OOP, DSA
- **Data & MLOps:** MySQL, SQLite, AWS EC2, systemd, Linux, model deployment, feature engineering, EDA

EDUCATION

BRAC University

Sep '21 – May '25

Bachelor of Science in Computer Science, CGPA: 3.91

Dhaka, Bangladesh

Notre Dame College

Jul '18 – Mar '20

HSC, GPA: 5.00

Dhaka, Bangladesh

PROJECTS

Amar Kotha | *Python, BanglaT5, seq2seq, Gradio*

- Built a free, offline Bangla AAC app giving non-verbal children a voice, pairing a deterministic grammar engine with a fine-tuned **BanglaT5** composer.
- Fine-tuned on self-generated, order-shuffled data, achieving near-perfect exact match on held-out tile combinations never seen in training.

DeshScan | *Python, PyTorch, U-Net, OpenCV*

- Built a private, on-device document scanner (detect, dewarp, shadow removal, OCR) where sensitive documents never leave the device.
- Trained a compact **U-Net** on self-generated synthetic shadow pairs for neural shadow removal, in a lightweight model that runs fully on CPU.

Auto Fund Mailer | *Python, LLM, NLP, Gmail API*

- Built a web app that parses a student's CV and ranks professors by research fit for funded PhD/Masters positions.
- Generates personalized funding-request emails and sends them from the student's own Gmail via the Gmail API.

RESEARCH

Undergraduate Thesis — BRAC University

Sep '24 – May '25

Supervisor: Dr. Farig Sadeque

Dhaka, Bangladesh

- **BanglaMUX: Dialect Detection, Transcription, and Translation for Low-Resource Bangla.**
- Built a transformer pipeline mapping any Bangla regional dialect to standard written Bangla, benchmarking **Whisper**, **BERT**, **BanglaT5**, **mT5**.
- Showed fine-tuned transformers improve dialect transcription and translation over standard-Bangla baselines, evaluated with WER and BLEU.

ACHIEVEMENTS & EXTRACURRICULAR

- Placed **11th of 187 teams**, BRACU Intra-University Programming Contest (Team Rocket). Leaderboard
- **Vice-Chancellor's List** (6 semesters) and **Dean's List** (1); **50% merit scholarship**, BRAC University.
- **IELTS: 7.0** overall; semi-finalist, **Vitalizers 2.0** Business Case Competition.
- **Muradpur Foundation** — Volunteer & Organizer: free health camps and primary-education funding, Sitakunda.