

MUNAWAR MAHTAB ANSARY

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EXPERIENCE

Innospace Infotech Ltd.

September '25 – Present

Junior Machine Learning Engineer

Dhaka, Bangladesh

- Worked on Innovert, a system that converts specific fonts to Unicode to streamline Lecture Publications.
- Successfully deployed Innovert with AWS instance aligned with systemd configuration.
- Built a Full Question Formatting pipeline that processes OCR inputs (images or text) and generates structured exam-ready content for the Brritto app.
- Contributing to a chatbot project using Retrieval-Augmented Generation (RAG) to enhance accuracy and context-aware responses.
- Building a QA system where we are using GPToss20B + QWEN 3 (Vision-Language model) for rectifying uploaded questions with mistakes
- Creating an AI agent for communicating in FB/whatsapp through n8n.
- For the recent google pay payment problem related to Brritto app, creating an alternative way for payment integration through bkaash.

BRAC University

June '24 – May '25

Student Tutor/TA

- Graded lab assignments and quiz scripts, ensuring fair evaluation and timely feedback for 40 students per semester.
- Provided over 60 hours of one-on-one consultation monthly to support students academically and technically.
- Attended student lab sessions regularly, offering real-time assistance with coursework and debugging.
- Conducted additional review classes before quizzes, midterms, and finals to reinforce key concepts and boost student confidence.

DataSoft

February '25 – June '25

Intern

Dhaka, Bangladesh

- Worked with the Microfin360 Next team
- Contributed to projects including various Laravel/CodeIgniter-based modules like Microfin Billing, assisting in both development and maintenance.
- Tried to make a full Microfin department based chatbot using RAG.
- Collaborated with cross-functional teams to deliver scalable software components aligned with business needs.
- Worked with tools and technologies such as Laravel, CodeIgniter and Git to ensure seamless integration and deployment.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C
- **AI & ML Tools:** n8n, PyTorch, TensorFlow, Keras, Scikit-learn, NumPy, Pandas, IntelliJ, Jupyter, Kaggle
- **Web Development:** Laravel, Codeigniter, Django, HTML, CSS, AJAX
- **Databases:** MySQL, SQLite, SQLyog
- **Other Expertise:** Git, Data Analysis
- **Deployment:** ngrok, AWS instance

EDUCATION

BRAC University

September '21 – May '25

Bachelor of Science in Computer Science, CGPA: 3.91

Dhaka, Bangladesh

Notre Dame College

July '2018 – March '2020

HSC , GPA: 5.00

Dhaka, Bangladesh

ACHIEVEMENTS

- Awarded multiple academic scholarships including a 50% merit-based scholarship at BRAC University, General Grade Scholarship in Class 8, and Talentpool Scholarship in Class 5.
- Achieved 11th place out of 187 teams in a competitive programming contest as part of **Team Rocket**. **View leaderboard**
- Reached the semi-finals in the **Vitalizers 2.0** Business Case Competition.
- Got placed on VC's List for 6 semesters as recognition of achieving a GPA of 3.90-4.00 on those particular semesters.
- Got placed on Dean's List for 1 semester as recognition of achieving a GPA of 3.70-3.89 on that particular semester.

EXTRACURRICULAR

Muradpur Foundation

Volunteer & Organizer

Sitakunda, Bangladesh

- Actively contributed to organizing health camps providing free medical, dental, and eye care services to underserved communities.
- Supported educational initiatives by funding primary school students' education in the local area.
- Led efforts to distribute food and essential rations during Ramadan and local crises to families in need.

PROJECTS

Sexism Detection with BiLSTM | *Python, NLP, Deep Learning, LSTM, GloVe*

April '24

- Built a Bidirectional LSTM model to classify and categorize online sexist content using the SemEval 2023 EDOS dataset.
- Preprocessed imbalanced real-world text data and implemented GloVe embeddings in binary classification.

QuickTrips | *Django, HTML, CSS, chatbase*

March '24

- Developed car rental web application that suggests optimized trip based on user preferences.
- Integrated chatbase, APIs and authentication

Airborne Autos – Obstacle-Jumping Car Game | *Python, OpenGL, 2D game*

Dec '23

- Developed a 2D obstacle-avoidance game where players control a car that jumps over dynamic obstacles like trees and stones.
- Implemented collision detection, physics-based jump mechanics, and progressive difficulty using python and openGL.

Flight Management System | *SQL, Web Development, UX Design, DBMS*

July '23

- Designed and implemented a web-based flight booking platform supporting both one-way and round-trip searches with advanced filtering options.
- Integrated secure authentication, automated e-ticket issuance, and invoice generation for seamless booking.
- Developed an admin dashboard to manage flights, routes, fares, and passenger records.

RESEARCH

Undergraduate Thesis

BanglaMUX: Enhancing regional dialect detection, transcription and translation performance for low resource bangla language

Supervisors Dr. Farig Sadeque

- Focused on developing a transcription and translation model for Bangla dialects using transformer-based approaches.
- Made a pipeline which takes in any sort of regional dialects of bangla language and converts into textual standard bangla.
- Explored lots of tools and models like Whisper, BERT, Bangla t5 and mt5.

INTERESTS

- Exploring advancements in Natural Language Processing, especially in low-resource language transcription, translation and conversational AI.
- Recently I got interested in applying machine learning techniques in the financial domain (FIN-ML) to analyze trends, detect anomalies, and build predictive models.
- I have been actively participating in many business case competitions (like BOM, IUT 11th ICT fest, etc.) and am genuinely interested in such activities.

CERTIFICATIONS

The Complete Python Bootcamp From Zero to Hero in Python | *Udemy (Jose Portilla)* **Jan '22**

- Learned Python fundamentals, data structures, web access, and working with databases.

Cleaning Data in Python | *Datacamp* **Jan '24**

- Learned how to identify, clean, and merge messy datasets in Python using techniques like handling missing values, correcting data types, applying constraints, and performing record linkage.

Feature Engineering for Machine Learning in Python | *Datacamp* **Feb '24**

- Learned how to preprocess and engineer features from categorical, continuous, and unstructured data to effectively prepare datasets for machine learning models.

Machine Learning with Tree-Based Models in Python | *Datacamp* **Mar '24**

- Learned how to train, tune, and ensemble decision tree models using scikit-learn to capture complex patterns while minimizing overfitting in real-world datasets.