

GEORGE TONMOY ROY

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121, Police Lines Road, Barishal, Bangladesh

OBJECTIVE

Enthusiast in NLP and AI with a solid foundation in machine learning, language models, and sentiment analysis. Familiar with integrating IoT concepts alongside leveraging AI and NLP technologies to analyze data, create impactful solutions, and tackle real-world challenges.

EDUCATION

• Khulna University of Engineering and Technology (KUET)

Computer Science and Engineering

- January 2020 - April 2025 [Expected]
- CGPA: 3.29/4.00

PATENTS AND PUBLICATIONS

- [1] "Exploring Transformer and Recurrent Neural Models for Sentiment Analysis of Mobile App Reviews" presented at the 2024 2nd International Conference on Information and Communication Technology (ICICT 2024), Dhaka, Bangladesh, Oct. 2024. DOI: [10.1109/ICICT64387.2024.10839678](https://doi.org/10.1109/ICICT64387.2024.10839678).
- [2] "Enhancing Fire Safety: Encoder-Decoder Based Detection and IoT-Driven Response System" presented at the 2024 2nd International Conference on Information and Communication Technology (ICICT 2024), Dhaka, Bangladesh, Oct. 2024. DOI: [10.1109/ICICT64387.2024.10839676](https://doi.org/10.1109/ICICT64387.2024.10839676).

PROJECTS

• Bangla Comment Sentiment Analysis

Sentiment Analysis Model: Classifies Bangla comments as positive or negative using a fine-tuned Transformer model. Achieved 99.64% accuracy with custom text preprocessing and robust metrics. [\[G\]](#)

- NLP and Sentiment Analysis
- Tools: Python, Bangla-BERT, NLTK

• Social Media Data Mining and Analysis

Project Overview: Extracted and analyzed user comments on Facebook and YouTube to identify engagement trends and public opinion, categorizing data into themes and preparing for NLP-based sentiment analysis. [\[G\]](#)

- Web Scraping, Social Media Analytics
- Tools: Python, Apify Client, Pandas, YouTube Comment Downloader

• Rail.BD

Online Train Ticket Booking App: Mobile app for booking train tickets with login, train search, seat selection, and e-ticket functionality. [\[G\]](#)

- Android Development
- Tools: Java, Firebase

• Rail.BD-Website

Online Train Ticket Booking Website: Web platform for booking tickets online with user login, seat selection, and e-ticket access. [\[G\]](#)

- Web Development
- Tools: HTML, CSS, Bootstrap, C#, ASP.NET

• Train-Management-System

Database Management System: Database solution for train schedules, reservations, and user data with efficient storage and retrieval. [\[G\]](#)

- Database Development
- Tools: MySQL

EXPERIENCE

• Junior R&D Intern

ZATIQ

October 2023 - November 2023

- Contributed to the collaboration of developing a business calculator with hardware and software integration.
- Developed core features, implemented authentication, and integrated database functionalities.

SKILLS

Programming Languages: C, C++, Java, Python, SQL

Natural Language Processing: BERT, RoBERTa, LLaMa, Hugging Face

Web Technologies: HTML, CSS, React.js, ASP.NET

Database Systems: MySQL, MsSQL, Firebase

Data Processing: Sentiment Analysis, Aspect-Based Sentiment Analysis

Cloud & DevOps: Git, GitHub

SCHOLARSHIPS & AWARDS

- **Project Showcase - Innovative Idea Contest, KUET Champion (2024)**

CO-CURRICULAR ACTIVITIES

- **Hardware Acceleration Club of KUET (HACK), KUET**
Vice President (2024 - Present)
- **Bit2Byte, KUET**
Vice President (2024 - Present)
- **BNCC - Naval Wing, Govt. BM College**
Cadet-Corporal (2017 - 2018)

ADDITIONAL INFORMATION

Languages:

- Bangla (Native)
- English (Fluent)