

# Md. Ayon Mia

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## EDUCATION

- Chittagong University of Engineering & Technology** Feb 2019 - June 2024  
Bachelor of Science  
Chattogram, Bangladesh
  - GPA: 3.83 (Honors)/4.00 (7<sup>th</sup> position)
  - Coursework: OOP, DBMS, OS, Computer Network, Computer Architecture, System Design and Analysis, Compiler Design, AI, ML, etc.
  - Thesis:** Code-Mixed Romanized Bengali to English Translation with Sequence-to-Sequence Deep Learning Model
- Rajuk Uttara Model College** 2018  
Higher School Certificate  
Dhaka, Bangladesh
  - Grade: 5.00/5.00
- Uttara High School & College** 2016  
Secondary School Certificate  
Dhaka, Bangladesh
  - Grade: 5.00/5.00

## RESEARCH INTEREST

Natural Language Processing (NLP), large Language Models (LLMs), Multimodal Learning, Machine Learning (ML), Deep Learning (DL) and Low Resource Language

## EXPERIENCE

- Dhaka International University** Jul 2024 - Present  
Lecturer at Dept. of Computer Science and Engineering  
Dhaka, Bangladesh
  - Conducting undergraduate level courses in Computer Science and Engineering
  - Mentoring students in academic and research activities
- Spectrum Engineering Consortium Ltd** Sep 2023 - Oct 2023  
Software Engineer Intern  
Dhaka, Bangladesh
  - Developed an algorithm for vehicle scheduling
  - Created backend server with proper database schemes
  - Achieved good output from the system
  - Successfully implemented UI using MERN stack

## PUBLICATIONS

C=CONFERENCE, J=JOURNAL, W=WORKSHOP

- [W.5] **KCRL@DravidianLangTech 2025: Multi-View Feature Fusion with XLM-R for Tamil Political Sentiment Analysis**  
M.A. Mia, F. Haq, M.T.A. Shawon, G.S.M. Mursalin, M.I. Khan  
In \*The Fifth Workshop on Speech and Language Technologies for Dravidian Languages\* at NAACL 2025  
Accept (Poster) [Preprint]
- [W.4] **KCRL@DravidianLangTech 2025: Multi-Pooling Feature Fusion with XLM-RoBERTa for Malayalam Fake News Detection and Classification**  
F. Haq, M.T.A. Shawon, M.A. Mia, G.S.M. Mursalin, M.I. Khan  
In \*The Fifth Workshop on Speech and Language Technologies for Dravidian Languages\* at NAACL 2025  
Accept (Poster) [Preprint]
- [W.3] **Golden Duck at #SMM4H 2024: A Transformer-based Approach to Social Media Text Classification**  
M.A. Mia, M. Yahan, H. Murad, M.I. Khan  
In the 9<sup>th</sup> Social Media Mining for Health Applications (SMM4H) Workshop at ACL 2024
- [W.2] **EmptyMind at BLP-2023 Task 1: A Transformer-based Hierarchical-BERT Model for Bangla Violence-Inciting Text Detection**  
U Das, K Fatema, MA Mia, M Yahan, MS Mowla, MDF Ullah, A Sarker, H Murad  
In Bangla Language Processing(BLP) Workshop at EMNLP 2023

- [W.1] **EmptyMind at BLP-2023 Task 2: Sentiment Analysis of Bangla Social Media Posts using Transformer-Based Models**  
K Fatema, U Das, M.A. Mia, MS Mowla, M Yahan, M.F. Ullah, A Sarker, H Murad  
*In Bangla Language Processing(BLP) Workshop at EMNLP 2023*
- [C.1] **Enhanced Semantic Relatedness Prediction using XLM-RoBERTa and CNNs with K-Fold Cross-Validation**  
M.A. Mia, F.S. Tamim, Z.S. Taheri  
Accepted at ICDMIS. In press (Springer) [\[Preprint\]](#)

## UNDER REVIEW PAPERS

C=CONFERENCE, J=JOURNAL, W=WORKSHOP

- [J] **BanGRev: A novel Bengali tech gadget review corpus utilizing triple-pooling feature fusion with explainable AI**  
M.A. Mia, A. Rahman, G.S.M. Mursalin, M.I. Khan, I.H. Sarker [\[Preprint\]](#)
- [J] **Code-Mixed Language Translation: An Integrated Framework with Enhanced Preprocessing and N-gram Optimization for Cross-Lingual Communication**  
M.A. Mia, M. Fahim, G.S.M. Mursalin, M.J.I. Basher, H. Murad, M.R. Islam, M.I. Khan, I.H. Sarker [\[Preprint\]](#)

## PROJECTS

- **CUET Hall Service: Hall management system** Sep 2023 - Jan 2024  
*Tools: Laravel, MySQL, Bootstrap, CSS, PHP etc.* [\[G\]](#)
  - Architected three-panel system (Admin, Student, Service Provider) using Laravel for streamlined hall service management
  - Implemented comprehensive admin panel with user management and request approval workflow features
  - Developed student portal for service requests with priority levels and real-time status tracking notifications
  - Created service provider interface with task management and automated report generation capabilities
- **T20 Score Predictor: A cricket score prediction system** Oct 2022 - Jan 2023  
*Tools: Python, NumPy, Pandas, Matplotlib, XGBoost, Flask, HTML/CSS etc.* [\[G\]](#)
  - Built interactive web interface using Flask and implemented XGBoost regression model for cricket score predictions
  - Designed feature engineering pipeline and created user-friendly interface for real-time score forecasting
- **Fruit And Vegetable Recognition: A CNN-based classification system** Oct 2022 - Jan 2023  
*Tools: Python, TensorFlow, VGG-19 etc.* [\[G\]](#)
  - Implemented fine-tuned VGG-19 architecture achieving 94% classification accuracy across 136 classes
  - Developed robust image preprocessing pipeline and optimized model parameters for improved performance
- **NOKSHA: E-commerce platform for clothing** May 2022 - Sep 2022  
*Tools: MongoDB, Express.js, React.js, Node.js* [\[G\]](#)
  - Built full-stack e-commerce platform with user authentication and profile management system
  - Implemented responsive product catalog with search, filtering and shopping cart features
- **Electricity Billing System: Utility management application** Jan 2021 - Feb 2021  
*Tools: Java, Java Swing etc.* [\[G\]](#)
  - Developed comprehensive billing calculation system
  - Created automated billing generation based on consumption data

## SKILLS

- **Programming Languages:** Python, C, Java, C++
- **Libraries & Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, Pytorch, Flask
- **Version Control:** Git
- **Database Systems:** MySQL
- **Problem Solving:** Solved 800+ problems (Codeforces, HackerRank, AtCoder, etc.)
- **Tools & Software:** MS Word, PowerPoint, Microsoft Excel

## HONORS AND AWARDS

- **Best paper award** Dec 2023  
Association for Computational Linguistics [🌐]
  - Title: EmptyMind at BLP-2023 Task 1: A Transformer-based Hierarchical-BERT Model for Bangla Violence-Inciting Text Detection
- **Technical Scholarship [Funded my undergraduate studies]** 2019 - 2024  
Chittagong University of Engineering and Technology [🌐]
- **1<sup>st</sup> at FakeDetect-Malayalam, detecting fake news in Malayalam news articles across five categories** Nov 2024  
DravidianLangTech-2025, NAACL 2025 [🌐]
- **2<sup>nd</sup> at Political Multiclass Sentiment Analysis of Tamil X (Twitter) Comments** Nov 2024  
DravidianLangTech-2025, NAACL 2025 [🌐]
- **6<sup>th</sup> at Fake News Detection in Dravidian Languages: Classify social media posts into original or fake** Nov 2024  
DravidianLangTech-2025, NAACL 2025 [🌐]
- **5<sup>th</sup> in Marathi Subtask at SemEval 2024 Task 1: Semantic Textual Relatedness (STR)** Sep 2023  
The 18th International Workshop on Semantic Evaluation, NAACL 2024 [🌐]
- **7<sup>th</sup> in Telugu Subtask at SemEval 2024 Task 1: Semantic Textual Relatedness (STR)** Sep 2023  
The 18th International Workshop on Semantic Evaluation, NAACL 2024 [🌐]
- **17<sup>th</sup> in English Subtask at SemEval 2024 Task 1: Semantic Textual Relatedness (STR)** Sep 2023  
The 18th International Workshop on Semantic Evaluation, NAACL 2024 [🌐]
- **9<sup>th</sup> at BLP Shared Task 1: Violence Inciting Text Detection (VITD)** Aug 2023  
Bangla Language Processing(BLP) Workshop at EMNLP 2023 [🌐]
- **7<sup>th</sup> at BLP Shared Task 2: Sentiment Analysis of Bangla Social Media Posts** Aug 2023  
Bangla Language Processing(BLP) Workshop at EMNLP 2023 [🌐]
- **1<sup>st</sup> at Sentiment Analysis of Code-Mixed Text CLBLP 2023 (Task 2)** Feb 2023  
International Workshop on Computational Linguistics and Bangla Language Processing (CLBLP 2023) [🌐]
- **6<sup>th</sup> at Multimodal Sentiment Analysis CLBLP 2023 (Task 1)** Feb 2023  
International Workshop on Computational Linguistics and Bangla Language Processing (CLBLP 2023) [🌐]

## VOLUNTEER EXPERIENCE

- **Research Mentor** 2024 - Present  
Khan Computational Research Lab (KCRL)
  - Mentor undergraduate students in thesis research and academic writing
  - Guide research methodologies and technical implementations
- **Adviser** 2025 - Present  
DIU Computer Programming Club (CPC)
  - Guide students in organizing programming competitions and tech events
  - Mentor club members in developing their programming and problem-solving skills
- **Adviser** 2024 - Present  
DIU Film & Photography Club
  - Guide students in organizing photography exhibitions and film festivals
  - Mentor club members in developing their creative and technical skills
- **Financial Secretary** 2022 - 2023  
RAJUK Ex- Students' Association (RESA), CUET
  - Managed financial operations and budget allocation for association activities
  - Maintained transparent financial records and coordinated fundraising initiatives

## CERTIFICATIONS

- **AI Agents Fundamentals** by Hugging Face March 2025
- **The Reasoning Course - Building AI models that reason** by Hugging Face March 2025
- **Python Matplotlib** by Great Learning Academy Nov 2023
- **Data Visualization** by kaggle Nov 2023
- **Pandas** by kaggle Nov 2023
- **Neural Networks and Deep Learning** by DeepLearning.AI Oct 2023

## ADDITIONAL INFORMATION

**Languages:** Bengali (Native), English (Professional Working Proficiency)

**Interests:** Exploring new things, Reading research papers & blogs, Listening songs, Watching Movies