

Khondoker Ittehadul Islam

FINAL-YEAR EM-LCT MASTERS STUDENT

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Education

University of Groningen, Saarland University

Groningen & Saarbrücken

DOUBLE DEGREE MASTER'S IN NATURAL LANGUAGE PROCESSING

2024 - 2026 (expected)

- Courses: **Advanced NLP** (9.2/10), **Deep Learning Practicals** (8.0/10).
- CGPA: 7.7/10

Shahjalal University of Science and Technology

Sylhet, Bangladesh

B.Sc. (ENGG.) IN COMPUTER SCIENCE AND ENGINEERING

2017 - 2021

- CGPA: 3.35/4.00
- Thesis: Multi-lingual BERT in Low-resource Language Tasks.

Publications

- **Khondoker Ittehadul Islam**, Md Saiful Islam, and Md Ruhul Amin; Sentiment analysis in Bengali via transfer learning using multi-lingual BERT. **ICCIT 2020**. 📄
- **Khondoker Ittehadul Islam**, Sudipta Kar, Md Saiful Islam, Mohammad Ruhul Amin; SentNoB: A Dataset for Analysing Sentiment on Noisy Bangla Texts. **Findings of EMNLP 2021**. 📄
- **Khondoker Ittehadul Islam**, Tanvir Hossain Yuvraz, Md Saiful Islam, Enamul Hassan; EmoNoBa: A Dataset for Analyzing Fine-Grained Emotions on Noisy Bangla Texts. **AACL-IJCNLP 2022**. 📄
- **Khondoker Ittehadul Islam**, Gabriele Sarti; Reveal-Bangla: A Dataset for Cross-Lingual Multi-Step Reasoning Evaluation. **BLP workshop @ IJCNLP-AACL 2025**. 📄

Professional Experience

2024 - 2025 **Research Assistant**, InCLow Lab, University of Groningen

- Analyzed LLM reasoning across languages, generation strategies, and parameter scales.
- Applied NLI, RAG, translation, and attribution techniques in a cross-lingual evaluation.
- Identified higher internal reasoning attribution for low-resource languages.
- Publications: BLP workshop @ IJCNLP-AACL 2025 📄 and on-going.

2021 - 2024 **Software Engineer**, REVE Systems

- Digitalized the administrative workflow process of Bangladesh Transport Ministry.
- Incorporated Theory-of-Computation (ToC) concepts to automate the chain-of-decisions.
- Production: <https://www.gems.gov.bd/> 📄

2019 - 2021 **Research Assistant**, SUST NLP Research Group, Shahjalal University of Science & Technology

- Evaluated the performance of neural network models on low-resourced Bangla language.
- Developed a corpus-level generalization metric.
- Designed an algorithm to assess annotation quality of 80+ annotators.
- Publications: Findings of EMNLP 2021 📄, AACL-IJCNLP 2022 📄

Student Projects

OCR on Historical Documents

2025

University of Groningen

Groningen, Netherlands


- Improved linguistic capabilities of vLMs for OCR tasks.
- Composited image to augment ancient documents.
- Reduced image resolution through page-separation preprocessing.
- Heuristically pseudo-labeled multi-class unlabeled documents.
- Report: <https://arxiv.org/pdf/2508.10356> 📄

Fallacy Detection On Presidential Speech

University of Groningen

2025

Groningen, Netherlands

- Leveraged emotional cues in debate speech for fallacy detection.
- Mapped tonal emotion values into textual representations to improve audio comprehension.
- *Report:* <https://arxiv.org/pdf/2509.11127> 

Fake News Detection on Low-Resourced Language

Fordham University

2022

Remote

- Created a Bangla fake news dataset by collecting source articles.
- Performed manual annotation with explanatory justifications.

Skills

Technical Stack Python, Java, R, PyTorch, HF's Transformers, vLMs, Praat, Git, Slurm

Interpretable ToolKit Seaborn, t-SNE, inSeq, ContextCite, LogitLens

Research Stack Paper Reviewing, Academic Writing, Grant Writing, Project Management

Hackathons

2025 **Edge AI contest** , Edge Impulse

Integrated a graph-based RAG system providing farm management guidance from academic sources.

Awards

2025 **Best NLP Student Project Award**, @GroNLP, University of Groningen

Competed with 7 other student teams to produce impactful research.

2025 **Google & Zendesk Scholarship**, LxMLS

Received expenses to participate in Lisbon ML Summer School.

2024 **NL Scholarship**, Nuffic, Dutch Ministry of Education, Culture, and Science

Awarded stipend to support education.

2024 **Consortium Scholarship**, Erasmus Mundus LCT Program

Received reduced annual program fee.

2023 **Outstanding Reviewer**, BLP Workshop @ EMNLP 2023

Assisted program chairs and authors through constructive feedback.

2021 **Student Travel Scholarship**, EMNLP 2021

Received expenses to attend the conference.

Academia Services

2024-2025 **Programme Committee Member**, ReMa Linguistics, CLCG, University of Groningen

Represented student cohort and provided course structural insights to the Dutch Education Ministry.

Complementary Education

2025 **15th LxMLS Summer School**, Instituto Superior Técnico (IST)

Courses: Learning with Linear Models, Introduction to Sequence Models, Pretrained Transformer Models, Causality

2025 **Erasmus Mundus LCT Summer School 2025**, DFKI & Saarland University

Workshops: Low-Resource Machine Translation, Interpreting Transformer Internals with Sparse Auto-encoders

2020 **Fundamental of Reinforcement Learning**, Alberta Machine Intelligence Institute via Coursera (University of Alberta)

An online non-credit course authorized by University of Alberta, Alberta Machine Intelligence Institute and offered through Coursera. CREDENTIAL ID: VYBJSWD5UKCH