Naima Islam Nodi
CV

Personal details

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Nationality	Bangladeshi
DoB	06.04.1996, Bangladesh
Visa-Status	Residence Permit - 16b

Studies

2022 - Ongoing

Master of Science in Natural Language Processing, *Universität Trier*, Germany
Grade: **2,1/1,00**

2015 - 2019

Bachelor of Science in Computer Science and Engineering, *Bangladesh Army University of Science and Technology*, Saidpur Cantonment, Bangladesh,
Thesis: Correcting Bangla spelling error using clustering algorithm and modified dictionary
Grade: 3.98/4.00 (Equivalent to German grading system: **1,1/1,0**)

Professional experience

10/2025 - Present

Student Assistant, *Modernity as Loss? (Link): DFG Funded Project at Trier Center for Digital Humanities (TCDH)*, Universität Trier
- Exploring narratives of decline and cultural critique in European literature (German).
- Investigating on the quantitative and qualitative approach to large literary corpora, supporting computational modeling of semantic and evaluative features using word embedding.

05/2025 - 09/2025

Student Assistant, *xPrEs: DFG Funded Project*, Universität Trier
- Worked on a novel content representation paradigm for multimedia documents by modeling sequences of attention shifts across multiple modalities.
- Investigated and analyzed similarities and differences between human perceptual patterns and those learned by state-of-the-art representation learning techniques.

08/2024 - 01/2025

Student Assistant, *Mismatch Condition in Machine Speaker Identification*, Universität Trier, (Publication Link)
- Designed the interface for recording the Human observations and perceptions on the similar audio samples followed by the analysis of the data for scientific publication.
- Applied the machine based approach for analyzing the results with known ground truth using an established forensic ASR system (Phonexia).

01/2020 - 08/2023	**Lecturer**, *R. P. Shaha University*, Narayanganj, Bangladesh
	- Developed contents and delivered lectures on Machine Learning and Neural Networks to class of 80+ students, fostering a deep understanding of concepts and practical applications.
	- Designed and taught coursework on Object-Oriented Programming (OOP) concepts and principles using Java.
	- Collaborated with a multidisciplinary team of faculty members to revise curriculum, improving course content and delivery methods, resulting in a 20%+ increase in student engagement.
07/2019 - 01/2020	**Teaching Assistant**, *Bangladesh Army University of Science and Technology*, Saidpur Cantonment, Bangladesh
	- Assessed assignments, quizzes and projects for a class of 50 students, ensuring timely and accurate feedback to support academic performance.
	- Prepared engaging course materials and presentations for semester lectures, enhancing student understanding and retention.

Skills

Strong suits	Python (Pandas, NumPy, Matplotlib, Plotly, PyTorch, Tensorflow, NLTK, Transformers, SpaCy, Wav2vec2), Microsoft Office (Word, Excel, PowerPoint), LaTeX, SPARQL
Elementary knowledge	Git, JAVA, C++, Linux
Language Skills	Bengali(native), English(C1), German(B1)
Volunteer work	Project Leader (Accommodation) internationales Zentrum (iZ), Universität Trier.

Projects

Digital Doppelgangers	An automatic pipeline for generating agents, producing synthetic posts that are highly similar to the real social media users across multiple dimensions.
Voice Twins	Speaker recognition in forensic contexts based on similar sounding monozygotic twins.
Argument Mining and Reasoning	Aligning Argument Structures and Sentiment Shifts in Rejection Letters: A Study of Conflicting Communication Dynamics.
Text Generation	N-gram based text generation model for low resource language (Bengali).
Recommendation System	A CNN based recommendation system to develop the collaborative filtering in recommending movie for personalized use.
Bangla Spell-checker	A suggestion based spell correcting system for a low resource language (Bengali) using the Apriori unsupervised learning.

Trier, 26.01.2026, Naima Islam Nodi