Alamin Sarker

Prospective PhD Student • Artificial Intelligence / NLP

alamin.sarker4241@gmail.com • +8801740051568 • Dhaka, Bangladesh
GitHub: AlaminSarkerFRII • LinkedIn: alamin-sarker

Research Interests

Methodological Natural Language Processing; Machine Learning; Low-resource Language Processing (Bangla NLP); Entity Linking; Annotation Modeling; Data-efficient and Resource-aware Learning

Education

Bangladesh University, Dhaka, Bangladesh
B.Sc. in Computer Science and Engineering   *Expected Jan 2026*
CGPA: **3.78 / 4.00**

Research Experience

Undergraduate Researcher – Natural Language Processing   2024 – Present
Bangladesh University

- Ongoing research on **Bangla Entity Linking** focusing on low-resource and noisy text settings.
- Studying annotation ambiguity, representation choices, and their impact on entity disambiguation.
- Conducting empirical analysis under constrained data and computational settings.
- Emphasizing methodological design over purely architectural scaling.

Publications

Manuscript in Preparation: *Bangla Entity Linking in Low-Resource and Noisy Text Settings* (Target venues: ACL / EMNLP Workshops)

Technical Skills

Programming: Python, JavaScript, TypeScript
ML / NLP: Machine Learning, NLP Pipelines, Entity Linking, Information Extraction
Data Tools: NumPy, Pandas, Matplotlib
Systems: Docker, Linux, Git, Django

Professional Experience

Software Engineer, Technometrics Limited   Apr 2024 – present

- Developed scalable systems integrating NLP-based sentiment analysis and topic modeling.
- Optimized system performance and containerized services using Docker.

Teaching

Founder & Instructor, Alhera Coaching Center   2015 – 2017
Taught Mathematics and Science at secondary level.

Languages

Bangla (Native), English (Fluent)