Nishat Raihan

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Summary — Final year PhD student, working on Code LLMs and focused to democratize AI in low-resource settings.

Research Interests

- <u>PhD Thesis</u>: "Language Modeling for Natural vs Programming Languages - Two Similar yet Different Modalities"
- <u>Main Focus</u>: Large Language Models (LLMs), Code LLMs, Math LLMs.

Skills

Languages	Python, Mojo, C++	**RAG**	PineCone, Chroma
Training	Pretraining, Finetuning	**Optimization**	Quantization, Distillation
Frameworks	PyTorch, TensorFlow, LangChain	**Deployment**	LangServe

Education

George Mason University	**Aug 2021 - Present**
PhD in Computer Science	*CGPA: 3.96/4.00*
George Mason University	**Aug 2021 - Dec 2024**
MS in Computer Science [Distinguished Academic Award]	*CGPA: 3.97/4.00*

Experience

George Mason University	**May, 2024 - Present**
Graduate Research Assistant	
George Mason University	**Aug 2021 - May, 2024**
Graduate Teaching Assistant	
Samsung R&D Institute Bangladesh	**Nov 2019 - Aug 2021**
Software Engineer, RPA & OCR Development	

Selected Research Works

Journal Publications —

- "On the Performance of Large Language Models on Introductory Programming Assignments"; Journal of Intelligent Information Systems; Springer; 2025. [ResearchSquare] [GitHub]

Conference Publications —

- "**TigerLLM**: "A Family of Bangla Large Language Models"; ACL main; 2025. [PDF] [GitHub]
- "**mHumanEval**: A Multilingual Benchmark to Evaluate Large Language Models for Code Generation"; NAACL main; 2025. [PDF] [GitHub]
- "**MojoBench**: Language Modeling and Benchmarks for Mojo"; NAACL Findings; 2025. [PDF] [GitHub] [Hugging-Face]
- "**Large Language Models in Computer Science Education**: A Systematic Literature Review"; Technical Symposium on Computer Science Education (SIGCSE TS); 2025. [arXiv] [GitHub]

Oraganizing Comittee Member —

- **The First Workshop on Language Models for Low-Resource Languages**@COLING'25;
- **First Workshop on Bangla Language Processing**@EMNLP'23;
- **Multilingual Lexical Simplification Pipeline (MLSP) shared task**@BEA'24;

Extracurricular Activities

The National Society of Leadership and Success	**Oct, 2024 - Present**
Member, , George Mason University Chapter	
Bangladesh Graduate Student Association (BDGSA)	**Apr, 2023 - Mar, 2024**
<u>Vice-President</u>, George Mason University	
Islamic University of Technology	**Jan, 2015 - Nov, 2018**
Organizing Member, IUT ICT FEST	