

# 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

- PhD Thesis: "Exploring and Adapting COde LLMs to Underrepresented Domains"
- Main Focus: Large Language Models (LLMs), Code LLMs, Math LLMs.

## Skills

**Languages** Python, Mojo, C++  
**Training** Pretraining, Finetuning  
**Frameworks** PyTorch, TensorFlow, LangChain

**RAG** PineCone, Chroma  
**Optimization** Quantization, Distillation  
**Deployment** LangServe

## Education

**George Mason University**  
*PhD in Computer Science*  
**George Mason University**  
*MS in Computer Science [Distinguished Academic Award]*

Aug 2021 - May, 2026  
CGPA: 3.96/4.00  
Aug 2021 - Dec 2024  
CGPA: 3.97/4.00

## Experience

**George Mason University**  
*Graduate Research Assistant*  
**George Mason University**  
*Graduate Teaching Assistant*  
**Samsung R&D Institute Bangladesh**  
*Software Engineer, RPA & OCR Development*

May, 2024 - Present  
Aug 2021 - May, 2024  
Nov 2019 - Aug 2021

## 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](#)]

### Organizing Committee 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**  
*Member, , George Mason University Chapter*  
**Bangladesh Graduate Student Association (BDGSA)**  
*Vice-President, George Mason University*  
**Islamic University of Technology**  
*Organizing Member, IUT ICT FEST*

Oct, 2024 - Present  
Apr, 2023 - Mar, 2024  
Jan, 2015 - Nov, 2018