

# 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

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

## Education

<b>George Mason University</b> <i>PhD in Computer Science</i>	<b>Aug 2021 - May, 2026</b> <i>CGPA: <u>3.96/4.00</u></i>
<b>George Mason University</b> <i>MS in Computer Science [Distinguished Academic Award]</i>	<b>Aug 2021 - Dec 2024</b> <i>CGPA: <u>3.97/4.00</u></i>

## Experience

<b>George Mason University</b> <i>Graduate Research Assistant</i>	<b>May, 2024 - Present</b>
<b>George Mason University</b> <i>Graduate Teaching Assistant</i>	<b>Aug 2021 - May, 2024</b>
<b>Samsung R&amp;D Institute Bangladesh</b> <i>Software Engineer, RPA &amp; OCR Development</i>	<b>Nov 2019 - Aug 2021</b>

## 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

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