

# Md Farhan Ishmam

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## RESEARCH INTERESTS

Web Agents, Vision-Language (Adapters, Robustness, and Modality Alignment), LLM Alignment.

## EDUCATION

- **University of Utah** Salt Lake City, UT, USA  
*PhD in Computing* Aug 2025 - Present
  - **Research:** Vision Language Web Agents
  - **Advisor:** Prof. Kenneth Marino
- **Islamic University of Technology (IUT)** Dhaka, Bangladesh  
*Bachelor of Science in Computer Science and Engineering; GPA: 3.96/4.00* Jan 2019 - May 2023
  - **Thesis:** Visual Robustness Analysis of VQA and Caption Ranking in Zero-Shot VQA.

## RESEARCH

C:CONFERENCE, J:JOURNAL, W:WORKSHOP, S:SUBMISSION

C7 R-MMA: Vision-Language Models with Recurrent Adapters for Few-Shot and Cross-Domain Generalization  
M Fahim\*, **MF Ishmam\***, MS Hossain, MA Amin, AA Ali, AKMM Rahman  
*WACV 2026 (To Appear)* [[Paper](#)] [[Code](#)]

C6 Enhancing Vision Language Corruption Robustness using Cross Distribution & Prompted Denoisers  
SS Latif\*, S Shiper\*, KMR Kiran\*, **MF Ishmam\***, MA Hossain, ARM Kamal, MH Ashmafee  
*WACV 2026 (To Appear)* [[Paper](#)] [[Code](#)]

C5 BanglaProtha: Evaluating Vision Language Models in Underrepresented Long-tail Cultural Contexts  
M Fahim\*, M Sourovo\*, AM Mazumder\*, **MF Ishmam\***, MTR Adib, FT Shifat, F Haider, M Bhuiyan  
*WACV 2026 (To Appear)* [[Paper](#)] [[Code](#)]

C4 Visual Robustness Benchmark for Visual Question Answering (VQA)  
**MF Ishmam\***, I Tashdeed\*, TA Saadat\*, MH Ashmafee, ARM Kamal, MA Hossain  
*WACV 2025* [[Paper](#)] [[Suppl.](#)] [[Code](#)]

C3 CHITROJERA: A Regionally Relevant Visual Question Answering Dataset for Bangla  
DD Barua\*, M Sourovo\*, M Fahim\*, F Haider, FT Shifat, M Adib, AB Uddin, **MF Ishmam**, FA Bhuiyan  
*ECML PKDD 2025* [[Paper](#)] [[Code](#)] [[Dataset](#)]

C2 BANTH: A Multi-label Hate Speech Detection Dataset for Transliterated Bangla  
F Haider\*, FT Shifat\*, **MF Ishmam\***, DD Barua, MSUR Sourovo, M Fahim, FA Bhuiyan  
*NAACL Findings 2025* [[Paper](#)] [[Code](#)] [[Dataset](#)]

C1 BANGLATLIT: A Benchmark Dataset for Back-Transliteration of Romanized Bangla  
M Fahim\*, FT Shifat\*, F Haider\*, DD Barua, MSUR Sourovo, **MF Ishmam**, FA Bhuiyan  
*EMNLP Findings 2024* [[Paper](#)] [[Code](#)] [[Dataset](#)]

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J1 From Image to Language: A Critical Analysis of Visual Question Answering (VQA) Approaches, Challenges, and Opportunities  
**MF Ishmam**, MS Shovon, MF Mridha, N Dey  
*Information Fusion 2024* [[Paper](#)] [[Preprint](#)]

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W5 Prompting with Sign Parameters for Low-resource Sign Language Instruction Generation  
M Tariquzzaman, **MF Ishmam**, SS Muna, MK Hasan, H Mahmud  
*Vision Foundation Models and Gen AI for Accessibility (CV4A11y) at ICCV 2025* [[Paper](#)] [[Code](#)] [[Dataset](#)]

W4 BNSENTMIX: A Diverse Bengali-English Code-Mixed Dataset for Sentiment Analysis  
S Alam, **MF Ishmam**, NH Alvee, MS Siddique, MA Hossain, ARM Kamal  
*Language Models for Low-Resource Languages (LoResLM) at COLING 2025* [[Paper](#)] [[Code](#)] [[Dataset](#)]

- W3 FourierKAN outperforms MLP on Text Classification Head Fine-tuning  
AA Imran\* and **MF Ishmam\***  
*Fine-Tuning in Modern Machine Learning (FITML) at NeurIPS 2024* [Paper] [Code]
- W2 Penta NLP at EXIST: Sexism Identification, Source Intention, Sexism Categorization In Tweets  
FT Shifat, F Haider, MSUR Sourovo, DD Barua, **MF Ishmam**, M Fahim, FA Bhuiyan  
*SEXism Identification in Social neTworks (EXIST) at CLEF 2024* [Paper] [Code]
- W1 Penta ML at EXIST: Tagging Sexism in Online Multimodal Content With Attention-enhanced Modal Context  
DD Barua, MSUR Sourovo, F Haider, FT Shifat, **MF Ishmam**, M Fahim, FA Bhuiyan  
*SEXism Identification in Social neTworks (EXIST) at CLEF 2024* [Paper] [Code]
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- S2 FrugalPrompt: Minimizing Contextual Overhead of LLMs  
SR Raiyan, **MF Ishmam**, AA Imran, MA Moni [Paper] [Code]
- S1 QualCoder: A Quality-Driven Multi-Agent Framework for Automated Code Generation  
SS Apurbo, ZZ Arpa, NKK Oishee, **MF Ishmam**, ARM Kamal, MA Hossain [Paper]

## TEACHING EXPERIENCE

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- **Islamic University of Technology** Dhaka, Bangladesh  
*Lecturer, Department of Computer Science and Engineering* Aug 2023 - July 2025

## INDUSTRY & RESEARCH EXPERIENCE

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- **University of Utah, SPARK Lab** Salt Lake City, UT, USA  
*Graduate Research Assistant on Vision-Language Web Agents* Aug 2025 - Present
  - **Yaana Technologies, AI R&D** Milpitas, CA, USA (Remote)  
*Research Intern on Multi-agent Telecom LLM* Sep 2023 - July 2025
  - **Penta Global Limited, AI Research** Dhaka, Bangladesh  
*AI Researcher on Bengali Vision-Language & Transliteration Systems* May 2023 and Aug 2023
  - **HawarIT Limited, R&D** Dhaka, Bangladesh (Hybrid)  
*Research Intern on Depth Estimation using Stereo Vision* Oct 2021 and Dec 2021

## AWARDS & ACHIEVEMENTS

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- Finalists (Top-7) at Robi Datathon 3.0, Bangladesh's largest data science event with 3,500+ participants.
  - IUT Research Seed Grant (IUT RSG) (Ref: REASP/IUT-RSG/2022/OL/07/012) - 5000\$ grant that covers research resources, conference registration fees, and travel expenses.