

RIDWAN MAHBUB

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EDUCATION

M.Sc. in Computer Science September 2024 - Present
York University
- Supervised by Dr. Enamul Hoque

B.Sc. in Computer Science and Engineering Jan 2019 - May 2023
Islamic University of Technology
- CGPA: 3.9 / 4.0

RESEARCH INTERESTS

Large Language Models | Natural Language Processing | Computer Vision | Machine Learning

PUBLICATIONS

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- ❑ **From Charts to Fair Narratives: Uncovering and Mitigating Geo-Economic Biases in Chart-to-Text**

Accepted at EMNLP 2025 [↗](#)

This paper systematically benchmarks vision-language models on chart-to-text generation and uncovers systemic geo-economic biases, showing that models tend to favor high-income countries in their summaries even when describing the same chart.

- ❑ **The Perils of Chart Deception: How Misleading Visualizations Affect Vision Language Models**

Accepted at IEEE VIS 2025 [↗](#)

This paper introduces the first large-scale benchmark of vision-language models on deceptive chart designs, revealing that even state-of-the-art models are vulnerable to subtle visual distortions.

- ❑ **DashboardQA: Benchmarking Multimodal Agents for Question Answering on Interactive Dashboards**

PrePrint [↗](#)

This paper introduces DashboardQA, the first benchmark for evaluating the capabilities of vision-language models in interactive dashboard navigation through question answering.

- ❑ **Judging the Judges: Can Large Vision-Language Models Fairly Evaluate Chart Comprehension and Reasoning?**

Accepted at ACL 2025, Industry Track [↗](#)

This paper presents the first comprehensive study of open-source vision-language models as automatic judges for chart comprehension and reasoning, highlighting their potential as cost-effective evaluators while also exposing persistent biases.

- ❑ **Unveiling the Essence of Poetry: Introducing a Comprehensive Dataset and Benchmark for Poem Summarization**

Accepted at EMNLP 2023 [↗](#)

This work benchmarks the creative language understanding and summarizing capacity of language models and highlights numerous short-comings of prevalent text summarization models.

❑ A Comparative Analysis of Efficient Convolutional Neural Network Based Methods for Plant Disease Classification

Accepted at ICCIT 2022 [↗](#)

The work delves into the complexities of plant disease classification, covering aspects such as available datasets, transfer learning, and a comparative analysis of lightweight CNN models for leaf disease.

PROFESSIONAL EXPERIENCE

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|---|---------------------------|
| ❑ National Research Council Canada ↗
<i>Graduate Research Intern, Cybersecurity Team</i>
Domain knowledge infusion into LLMs for cyber-security tasks. | September, 2025 - Present |
| ❑ York University ↗
<i>Teaching Assistant, Electrical Engineering and Computer Science</i>
Course: EECS 1015 - Intro. to Computer Science & Programming. | September, 2024 - Present |
| ❑ Bangladesh University of Business and Technology ↗
<i>Lecturer, Computer Science and Engineering</i>
Courses: Operating Systems, Operating Systems Lab and Numerical Analysis Lab. | July, 2023 - August, 2024 |
| ❑ Nilavo Technologies ↗
<i>Software Development Intern</i>
Worked on an internal project management tool used daily by 50+ employees. | May, 2022 - July, 2022 |
| ❑ HawarIT Limited ↗
<i>Machine Learning Intern</i>
Worked on different computer vision projects including traffic sign detection. | July, 2021 - August, 2021 |

PROJECTS

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| Communify ↗
Instant messaging social platform mainly geared towards group and event management with user centric features. | React, Node |
| Resume Maker ↗
Automated CV creation and management mobile app with multiple templates suited for different professions. | Flutter, Firebase |
| Plant Care ↗
Machine learning based app that can identify plant disease upon uploading the image of the diseased plant leaf. | Python, TensorFlow, React |
| Automated Examination System ↗
Examination System with built in screen recording feature to ensure fair examinations in the age of online education. | Java, JavaFX |
| Restaurant Management System ↗
Desktop application for internal management of restaurants accommodating use cases of different types of employees. | Qt, C++ |

EXTRA-CURRICULAR ORGANIZATIONS

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| ❑ Head of Publications, IUT Computer Society | 2022 - 2023 |
| ❑ Vice President and Founding Member, IUT Chess Society | 2022 - 2023 |
| ❑ Debater and General member, Notre Dame Debate Club | 2017 - 2018 |

ACHIEVEMENTS

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| ❑ First runner-up, Hackathon, CodeRush, IUT | ❑ First runner-up, Intra University App Idea Contest |
| ❑ Best Presentation of the Session, ICCIT 2022 | ❑ Second runner-up, Dhaka Regional Math Olympiad |