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

❏ **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

- ❏ **National Research Council Canada** ↗   September, 2025 - Present
  Graduate Research Intern, Cybersecurity Team
  Domain knowledge infusion into LLMs for cyber-security tasks.

- ❏ **York University** ↗   September, 2024 - Present
  Teaching Assistant, Electrical Engineering and Computer Science
  Course: EECS 1015 - Intro. to Computer Science & Programming.

- ❏ **Bangladesh University of Business and Technology** ↗   July, 2023 - August, 2024
  Lecturer, Computer Science and Engineering
  Courses: Operating Systems, Operating Systems Lab and Numerical Analysis Lab.

- ❏ **Nilavo Technologies** ↗   May, 2022 - July, 2022
  Software Development Intern
  Worked on an internal project management tool used daily by 50+ employees.

- ❏ **HawarIT Limited** ↗   July, 2021 - August, 2021
  Machine Learning Intern
  Worked on different computer vision projects including traffic sign detection.

PROJECTS

Communify ↗   **React, Node**
Instant messaging social platform mainly geared towards group and event management with user centric features.

Resume Maker ↗   **Flutter, Firebase**
Automated CV creation and management mobile app with multiple templates suited for different professions.

Plant Care ↗   **Python, TensorFlow, React**
Machine learning based app that can identify plant disease upon uploading the image of the diseased plant leaf.

Automated Examination System ↗   **Java, JavaFX**
Examination System with built in screen recording feature to ensure fair examinations in the age of online education.

Restaurant Management System ↗   **Qt, C++**
Desktop application for internal management of restaurants accommodating use cases of different types of employees.

EXTRA-CURRICULAR ORGANIZATIONS

- ❏ 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

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