

# RIDWAN MAHBUB

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## EDUCATION

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

### ❑ Natural Language Processing

- **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 summarization capacity of language models and highlights numerous short-comings of text summarization models when dealing with creative language.





### ❑ Computer Vision

- **A Comparative Analysis of Efficient Convolutional Neural Network Based Methods for Plant Disease Classification.**

*Accepted at ICCIT 2023* 

The work explores the intricacies of plant disease classification, including available datasets, usage of transfer learning etc. along with a comparative analysis of light weight CNN models for leaf disease classification.

## PROFESSIONAL EXPERIENCE

- ❑ **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.






## TECHNICAL SKILLS

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|---|---|
| ❑ <b>Language-</b> C++, Java, JavaScript, Python    | ❑ <b>Frontend-</b> React, Flutter, Angular, Qt                          |
| ❑ <b>Database-</b> Oracle, MySQL, PostgreSQL, NoSQL | ❑ <b>Backend-</b> Node, Spring Boot, Firebase                           |
| ❑ <b>Machine Learning-</b> TensorFlow, Pytorch      | ❑ <b>Others-</b> Git, Bash, Linux, L <sup>A</sup> T <sub>E</sub> X, GCP |

## PROJECTS

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

## 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     |

## CERTIFICATION

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|---|------|
| ❑ Neural Networks and Deep Learning, <i>by DeepLearning.ai</i>           | 2021 |
| ❑ Python 3 Programming Specialization, <i>by University of Michigan</i>  | 2020 |