

MD. MUNAWAR HOSSAIN

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Summary

Md. Munawar Hossain is deeply passionate about machine learning, particularly in the realms of deep learning and federated learning. He has a proven track record of developing and deploying machine learning models that drive data-driven decision-making. He just completed my B.Sc. & currently working as a DevOps Engineer for Exos Systems sister concern, Hubar Tech Limited. Munawar is now looking to pursue a Ph.D. to delve deeper into cutting-edge research and contribute significantly to the field of artificial intelligence.

Research Interests

- Machine Learning
- Deep Learning
- Federated Learning
- Computer Vision
- Distributed Systems

Education

Rajshahi University of Engineering & Technology

January 2018 – September 2023

B.Sc. in Electrical & Computer Engineering

CGPA: 3.32 / 4.00 (3.7 in the last 4 Semesters)

Work Experience

Exos Systems

November 2023 – Present

DevOps Engineer

- Collaborate with the whole team to automate, monitor, and enhance the infrastructure.
- Work on scripting and automation to streamline deployment processes.
- Contribute to system and network monitoring, troubleshooting, and security enhancements.

Qubitech Solutions

June 2021 – December 2022

Product Development & Research

- Engage with clients to get for requirement analysis to determine the needs and expectations of a new product.
- Managing the Software & Design team together to streamline the production process to meet the timeline.
- Testing the prototype of the software to see the functionality & usability of the product before delivery.

Research Publications

Journals

- M. F. Ahamed, **M. M. Hossain**, M. Nahiduzzaman, MR Islam, MR Islam, M. Ahsan, J. Haider ., ‘**A review on brain tumor segmentation based on deep learning methods with federated learning techniques**’, Computerized Medical Imaging and Graphics, vol. 110, p. 102313, Dec. 2023, doi: 10.1016/J.COMPIMEDIMAG.2023.102313.
- **M. M. Hossain**, M. F. Ahamed, MR Islam, MR Islam, M. Ahsan, J. Haider ., ‘Privacy Preserving Federated Learning for Lung Cancer Classification’**Under Review**
- **M. M. Hossain**, M. F. Ahamed, M. Nahiduzzaman, MR Islam, MR Islam, M. Ahsan, J. Haider ., ‘Machine Learning-Based Object Detection: An In-Depth Exploration of Techniques and Applications’**Under Review**

Conference

- **M. M. Hossain**, M. Faysal Ahamed, M. R. Islam, and M. D. Rafi Imam, ‘**Privacy Preserving Federated Learning for Lung Cancer Classification**’, 2023 26th International Conference on Computer and Information Technology, ICCIT 2023, 2023, doi: 10.1109/ICCIT60459.2023.10441464.
- O. Jyoti, **M. M. Hossain**, E. Nahid, and M. A. Ismail Siddique, ‘**Comparative Analysis of Machine Learning Algorithms for Transmission Line Fault Detection**’, 2023 10th IEEE International Conference on Power Systems, ICPS 2023, 2023, doi: 10.1109/ICPS60393.2023.10428812.
- O. Jyoti, H. B. Kibria, and **M. M. Hossain**, ‘**A Machine Learning Approach for Distribution Transformer Fault Detection**’, 2023 10th IEEE International Conference on Power Systems, ICPS 2023, 2023, doi: 10.1109/ICPS60393.2023.10428807.
- M. D. Rafi Imam, O. Jyoti, Z. Afrin, **M. M. Hossain**, ‘**Suicidal Thought Detection Using NLP(Natural Language Processing) on Reddit Data**’, 2023 26th International Conference on Computer and Information Technology, ICCIT 2023, 2023, doi: 10.1109/ICCIT60459.2023.10441163.
- M. Faysal Ahamed, **M. M. Hossain**, M.M. Mary, M. R. Islam, ‘**Optimizing Skin Lesion Segmentation with UNet and Attention-Guidance Utilizing Test Time Augmentation**’, 2024 6th International Conference on Electrical Engineering and Information & Communication Technology, ICEEICT 2024, 2024, **Accepted**.

Leadership & Extracurricular Activities

Photographic Society of RUET

June 2019 – April 2022

Joint Secretary

- Oversee event planning, mentoring members, manage communications, administrative duties and organizing photo exhibitions to foster artistic growth and community engagement

TEDxRUET

June 2019 – December 2019

3D Animator

- As a passionate member of TED I participated as a 3D animator for promotion of the first TED event in my university.

Hult Prize On Campus at RUET

HULT 2019

Volunteer

- Had the opportunity to support and witness the incredible passion and creativity of young changemakers striving to address pressing global issues through entrepreneurship.

Scintilla Science Club

June 2016 – April 2017

Joint Secretary

- Organizing member in arranging the 62th Annual Science Fair of Scintilla science club, St. Josephs Higher Secondary School

Test Score

IELTS overall score 7.5 (Listening:6.5, Reading:8.5, Speaking:7.5, Writing:7.5)

Technical Skills

Languages: Python, Java, C++

Soft Skills: Communication, Leadership, Teamwork, Problem Solving, Decisiveness, Flexibility.

Clouds & Databases: AZURE, AWS, PostgreSQL, MongoDB

Machine Learning: Deep Learning, Supervised Learning, Segmentation, Classification

Design: Illustrator, Photoshop, Blender 3D

Honours and Awards

Technical Scholarship

Every Year throughout University

Batch of 2017

Rajshahi University of Engineering & Technology

Finals of Satellite Expedition Contest 2020

2020

Team Snowchild

BRAC University

Several Photography Prizes

Throughout University Life

A hobby where I can feel myself

References

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