

Md. Mahfuzur Rahman

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mahfuzur-mahim-rahman | Mahim-Sama

Personal Statement

Hello! My name is Md. Mahfuzur Rahman, but you can call me Mahim. I am an aspiring Machine Learning engineer passionate about bringing innovation to the industry through academic excellence and practical experience. Although I aim to make meaningful contributions in the field, I recognize that pursuing higher studies is crucial for deeper expertise. This combination of academic knowledge and hands-on experience will best position me to develop innovative solutions that make a positive difference. I approach this journey humbly, knowing there is always more to learn and discover.

Education

Ahsanullah University of Science and Technology , B.Sc. in Computer Science and Engineering	December 2023
• CGPA: 2.849/4.0	
BCIC college , Higher Secondary Certificate	July 2018
• GPA: 4.25/5.0	
Monipur High School , Secondary School Certificate	May 2016
• CGPA: 5.0/5.0	

Experience

Junior Software Engineer (ML team) , Silicon Orchard LTD.	March 2024 – Present
• Worked on a company project where implemented RAG system and managing the API deployment using fastAPI and PostMan .	
• Working on a running research project where employed the YOLO object detection model.	
• Engaged in an ongoing initiative that focuses on improving current operations. In this work, I used the fuzzy c-means clustering method, evaluated the clustering, and used the existing autoencoder model for text processing.	

Publications

UAV (Unmanned Aerial Vehicles): Diverse Applications of UAV Datasets in Segmentation, Classification, Detection, and Tracking	Oct 2024
<i>Md. Mahfuzur Rahman</i> , Sunzida Siddique, Marufa Kamal, Rakib Hossain Rifat, Kishor Datta Gupta 10.20944/preprints202411.0829.v1	
Uddesho: An Extensive Benchmark Dataset for Multimodal Author Intent Classification in Low-Resource Bangla Language	Oct 2024
Fatema Tuj Johora Faria, Mukaffi Bin Moin, <i>Md. Mahfuzur Rahman</i> , Md Morshed Alam Shanto, Asif Iftekher Fahim, Md. Moinul Hoque 10.48550/arXiv.2409.09504	

Submitted Manuscripts

BanglaCalamityMMD: A Comprehensive Benchmark Dataset for Multimodal Disaster Identification in the Low-Resource Bangla Language	Oct 2024
Fatema Tuj Johora Faria, Mukaffi Bin Moin, Busra Kamal Rafa, Swarnajit Saha, <i>Md. Mahfuzur Rahman</i> , Khan Md Hasib, M. F. Mridha	

Ongoing Research

Knowledge Graph Embedding and Graph Convolutional Network based approach to Gene-Disease Association Prediction (On going)

May 2023 - Present

Technologies

Languages: Python, C++, C, Java

Scripting: \LaTeX

Framework: Python-Kivy

Deep Learning Framework: Pytorch, TensorFlow, keras

Database: MS-SQL

Others: Langchain, Prompt Engineering, LLM fine-tuning

Extra-Curricular Activities

- **Organizer**, AUST CSE Carnival 1.0, Ahsanullah University of Science and Technology (Jan 2023)
 - Organized and volunteered in the intra-university programming contest.
 - Organized and monitored the Robo-Soccer tournament.
 - Volunteered in the Software Exhibition.
- **Organizer**, AUST CSE ODYSSEY Spring 2022
 - Monitored code of conduct inside the venue.
 - Management of the whole ceremony.
- **Participant**, CodeFiesta Sponsored by CEFALO (2022)
 - Took part in this inter-university programming contest to assess myself.
- **Organizer**, Naimul Memorial Cricket League Spring-2022
 - Actively helped plan the sports event and monitored the overall rules and guidelines for sports (Cricket) behaviour.
- **Participant**, Bisshoshahitto kendro Boi pora protijogita 2017
 - Got the price for "shera pathok"

References

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Dr. S.M.A. Al-Mamun