

Md Mahmudul Hoque

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Phone: +8801701077793

Email: cse.mahmud.evan@gmail.com

[Google Scholar](#)

GitHub: //evanmahmud

LinkedIn: /md-mahmudul-hoque-318b56247

ORCID: Md Mahmudul Hoque

Birth Place: Cumilla

Citizenship: Bangladesh

DOB: 17 July 1999

Research interests

Machine Learning, Deep Learning, Data Science, Natural Language Processing, Image Processing, Neural Networks, Computer Vision, Signal Processing, Big Data.

Education

CCN University of Science & Technology

Cumilla, Bangladesh

Bachelor of Computer Science & Engineering

Jan 2018 – April 2022

Mentors: Professor Dr. Mohammed Moshikul Hoque, Khallil Ahammad, Nayan Banik, Ikbal Ahmed

CGPA: 3.72.

Thesis: Forecasting of Grocery Price in Bangladesh using Facebook Prophet

Chowara Adarsha College

Cumilla, Bangladesh

Higher Secondary Certificate in Science

Jul 2015 – Jul 2017

Comilla Board.

GPA: 3.42.

Power Development Board High School

Cumilla, Bangladesh

Secondary School Certificate in Science

2013 – 2014

Comilla Board.

GPA: 5.00.

Honors and scholarships

Primary Education Completion Examination (General Scholarship offered by Government of Bangladesh according to top result in PECE exam) 2009

Conference Publications

Md Mahmudul Hoque, Ikbal Ahmed, Nayan Banik, and Mohammed Moshikul Hoque, "Analyzing Price Forecasting of Grocery Products in Bangladesh: A Comparison of Time Series Modeling Approaches." In International Conference on Intelligent Computing & Optimization, pp. 334-341. Cham: Springer Nature Switzerland, 2023. DOI: https://doi.org/10.1007/978-3-031-50158-6_33

Al Amin, Anik Sarkar, Md Mahamodul Islam, Asif Ahammad Miaze, Md Robiul Islam and **Md Mahmudul Hoque**, "Sentiment Polarity Analysis of Bangla Food Reviews Using Machine and Deep Learning Algorithms," 2024 3rd International Conference on Advancement in Electrical and Electronic Engineering (ICAEEE), Gazipur, Bangladesh, 2024, pp. 1-6, doi: 10.1109/ICAEEE62219.2024.10561876.

Md Mahmudul Hoque, Ikbal Ahmed, Injamul Haque Jamil and Farhana Abedin. "A comparison of Bangladeshi daily news portals' various clustering techniques for online revenue generation." *In 2024 4th International Conference on Innovations in Science, Engineering and Technology (ICISSET 2024) [Accepted]*

Asif Ahmed, Tonmoy Roy, Md Rabiul Islam, **Md Mahmudul Hoque**, Sunjim Hossain, Safa Yeamin. "Abstractive Text Summarization for Bangla Language Using NLP and Machine Learning Approaches."
Submitted on 2nd International Conference on Information and Communication Technology (ICICT2024)

Md Mahmudul Hoque, Ikbal Ahmed . "Bengali Text Classification: An Evaluation of Large Language Model Approaches".
submitted on 2024 27th International Conference on Computer and Information Technology (ICCIT)

Journal Publications

Ikbal Ahmed, **Md Mahmudul Hoque**, Nayan Banik, Atiqur Rahman, Mohammad Nur-E-Alam, Mohammad Aminul Islam, et al. "Optimizing Classification Methods for Online Buyers' Purchase Intentions in Bangladesh." *International Journal of Recent Technology and Engineering (IJRTE)*. March 30, 2024. <https://doi.org/10.35940/ijrte.e7987.12060324>.

Ikbal Ahmed, **Md Mahmudul Hoque**, Mohammad Nur-E-Alam, Md. Helal Uddin, Manzoore Elahi M. Soudagar. "Sentiment Analysis of Suicidal Cases from Facebook Bangla Text Comments using Machine Learning and Deep Learning Techniques". (Submitted on a Journal)

Projects

Library Management System

Python Tkinter, SQL

Course Project: Database Management System (5th Semester)

Teaching experience

Graduate Teaching Assistant, Department of CSE (CCN University of Science and Technology)

Oct 2022- Dec 2023

Courses : Data Structure, Machine Learning, Society & Ethics

Preparing and Providing lectures in these courses, Taking Lab classes, class tests, Lab exams, Lab quiz, Observe and evaluate answer sheets, Making evaluation sheets.

Average student rating: 4.5/5.

Industry experience

IPIT Limited

Research Assistant

Cumilla, Bangladesh

April 2024 – Present

Mentorship

Machine Learning Intern (Remote)

Ahmedabad, India

March 2024 – April 2024

	Electrician , Under the supervision of a reputable Electrician Bangladesh Electrician (Part Time) House Wiring, Induction Motors, Dealing with rural customers and owner, Managing labours etc.	Cumilla, May 2017 – Sep 2022
	Taxes Zone - Cumilla Data Entry Computer Operator Volunteered at 3 Income Tax Fair, Freelancing experience of Uploading and Scanning Online and Offline Tax Return papers, Communicating with Deputy Tax Commissioner and Assistant Tax Commissioners as a group leader, Deal- ing and helping tax payers by providing information about tax.	Cumilla, Bangladesh Oct 2016 – Dec 2018
Survey experience	Economic Census Listing (ECL) Lister, Bangladesh Bureau of Statistics (BBS)	Cumilla , Bangladesh July 2024
	Population and Housing Census (PHC) Eliminator, Bangladesh Bureau of Statistics (BBS)	Cumilla , Bangladesh June 2022
	Agriculture Census (AGC) Eliminator, Bangladesh Bureau of Statistics (BBS)	Cumilla , Bangladesh June 2019
	National Household Database Project (NHD) Eliminator, Bangladesh Bureau of Statistics (BBS)	Cumilla , Bangladesh Jan 2018
Conferences	2024 International Conference on Innovations in Science, Engineering and Technology (ICISSET) A comparison of Bangladeshi daily news portals' various clustering techniques for online revenue generation.	Chittagong, Bangladesh October 2024
	3rd International Conference on Advancement in Electrical and Elec- tronic Engineering Sentiment Polarity Analysis of Bangla Food Reviews Using Machine and Deep Learning Algorithms	Gazipur, Bangladesh April 2024
	6th International Conference on Intelligent Computing and Optimiza- tion Analyzing Price Forecasting of Grocery Products in Bangladesh: A Compari- son of Time Series Modeling Approaches.	Hua Hin, Thailand April 2023
	2nd International Workshop on Computational Linguistics & Bangla Language Processing	Feb 2023

Natural Language Processing, Bangla Language Processing
Chittagong University of Engineering & Technology

International Conference on Business, Innovation and Social Science (ICBISS 2022)

Cumilla, Bangladesh

Grocery Trend Analysis in Bangladesh using Facebook Prophet Dec 2022

CCN University of Science and Technology.

Contestes

12th National Undergraduate Mathematics Olympiad 2021 Nov 2021

Computenigma 2020

Jan 2020

Inter University Programming Contest, Bangladesh Army International University of Science & Technology.

CSE CARNIVAL 2020

Jan 2020

Inter University Programming Contest, Britannia University.

BUP TECHSURGENCE 2019

April 2019

IUPC, Bangladesh University of Professionals.

Skills

Programming

Proficient in: Python, C/C++.

Familiar with: Java, Ruby.

Machine Learning Skills

Worked with: Regression, Classification, Time Series, Clustering.

Familiar with: Natural Language Processing(LLM), Image Processing, Medical Image Processing, Neural Networks Models(Tensorflow, Keras, PyTorch), Singal Processing, Brain Signal Processing

Languages

Bengali (native), English (fluent), Hindi/Urdu (advance), Arabic (basic)

Service and outreach

Comilla IT Park

April 2019

Volunteering and helping customers by delivering information, Event Managing, Food and Security Managements.

Taxes Zone, Cumilla

2016,2017,2018

Volunteering at Tax fair, Volunteering and helping customers by delivering information, Event Managing, Assisting tax payers on how to complete papers and file tax returns, Food and Security Managements.

Extra Activities

Semicolon- Programming Club of CCN-UST

President

Sep 2019 - Dec 2021

	Bangladesh Open Source Network(BdOSN)	
	Vice President	Sep 2019 - Dec 2021
	CCN-UST Debate Club	
	Member	Jun 2018 - Dec 2021
Professional memberships	IEEE Student Membership.	Bangladesh Section
	Member #98295908	
	Professional ICO 2023.	27-28 April, 2023
	6th International Conference on Intelligent Computing and Optimization	
Other interests	Writing Letters, Collecting Foreign Currencies, Deep interest in Learning different languages and getting knowledge about different cultures, Observing people, Support people psychologically and counselling who are straggling with depression, anxiety and mental pressure, Travelling and Adventure.	