

Md. Mahbubur Rahman

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Education

A. PhD candidate in Computer Science (Fall 21 - Present)

Iowa State University of Science and Technology

Research Interests: Data Science, Natural Language Processing

B. B. Sc. in Computer Science and Engineering (June, 2018)

Department of Computer Science and Engineering

Jahangirnagar University, Savar, Dhaka, Bangladesh.

Thesis: Automatic Image-Stitching using Feature Based Method

Advisor: Prof. Dr. Mohammad Shorif Uddin

CGPA: 3.70/4.00 (Class Position: 7th)

Awards & Achievements

1. **13 gold, 11 silver and 6 bronze medals**, for online programming competition performances, [Hackerrank](https://www.hackerrank.com), (2013 - 2018).
2. Jahangirnagar University Central Scholarship, for undergraduate result, Jahangirnagar University, Bangladesh, (2013 - 2018).
3. **2nd** place recipient, Information Technology Professionals Exam(**ITEE FE**), Bangladesh, Oct. 2018.
4. **1st** place recipient, Inter Dept. Programming Contest, Jahangirnagar University, Bangladesh, 2017.
5. **3rd** place recipient, National Collegiate Programing Contest, Bangladesh, 2017.
6. **3rd** place recipient, 9th ICT FEST, IUT, Bangladesh, 2017.
7. **4th** place recipient, Inter University Programming Contest, NSU, Bangladesh, 2017.
8. **50th** place recipient, Google Kickstart - Round F, 2017.
9. **3rd** place recipient, National Programming Camp, Bangladesh, 2016.
10. **5th** place recipient, CSE Day, BUET, Bangladesh, 2016.
11. **12th** place recipient, ACM-ICPC Asia Dhaka(Bangladesh) Regional Contest, Bangladesh, 2016.

Publications

A. Articles Accepted/Published in Conferences

1. MA Pramanik, **MM Rahman** , ASMI Anam, AA Ali, MA Amin, and AKMM Rahman. “ Modeling Traffic Congestion in Developing Countries using Google Maps Data”, accepted to be published in Proc. of the Future of Information and Communication Conference, 2021.
2. MAZ Khan, AM Parvez, **MM Rahman**, and MM Anwar. “ Efficient Advertisement Slogan Detection and Classification Using a Hierarchical BERT and BiLSTM-BERT Ensemble Model”, accepted to be published in Proc. of the International Conference on Intelligent Computing and Optimization, 2021.
3. **MM Rahman**, MAZ Khan, and AA Biswas. “Bangla News Classification using Graph Convolutional Networks”, accepted to be published in Proc. of the International Conference on Computer Communication and Informatics, 2021.
4. AA Biswas, **MM Rahman**, A Rajbongshi, and A Majumder. “Recognition of Local Birds using Different CNN Architectures with Transfer Learning”, in Proc. of the International Conference on Computer Communication and Informatics, 2021.
5. J Biswas, **MM Rahman**, AA Biswas, MAZ Khan, A Rajbongshi and HA Niloy. “Sentiment Analysis on User Reaction for Online Food Delivery Services using BERT Model”, in Proc. of the 7th International Conference on Advanced Computing and Communication Systems, 2021.
6. **MM Rahman**, MA Pramanik, R Sadik, and P Chakraborty. “Bangla Documents Classification using Transformer Based Deep Learning Models”, in Proc. of the 2nd International Conference on Sustainable Technologies for Industry 4.0, pp. 1-5, 2020.

B. Articles Accepted/Published in Journals

1. A Mazumder, A Rajbongshi, **MM Rahman**, and AA Biswas. “Local Freshwater Fish Recognition Using Different CNN Architectures with Transfer Learning”. Accepted to be published in International Journal on Advanced Science, Engineering and Information Technology, 2021.(Q3)
2. A Rajbongshi, MI Islam, **MM Rahman**, and AA Biswas. “Bangla Optical Character Recognition and TexttoSpeech Conversion using Raspberry Pi”. International Journal of Advanced Computer Science and Applications, pp. 274-278, 2020.

3. **MM Rahman**, A Rajbongshi, AA Biswas, and A Majumder. (2020). "Recognition of Local Birds of Bangladesh Using MobileNet and Inception-v3". International Journal of Advanced Computer Science and Applications, Vol. 11, No. 8, 2020.

Professional Activities

- Research Assistant (Part-Time), Agency Lab, Independent University, Dhaka, Bangladesh (Dec. 19 - Jul. 21).**
 - Collecting traffic data with minimal cost from Google map data.
 - Developing efficient model for predicting traffic intensity.
- Software Engineer, Crowd Realty, Tokyo, Japan (Nov. 2019 - Present).**
 - Design and development of API using Python, Django and Node js.
 - Design and development of API authentication system.
 - Fintech data analysis using different kinds of statistical or deep learning based algorithms.
- Software Engineer, BJIT Inc., Tokyo, Japan (Nov. 2018 - Oct. 2019).**
 - Development of Bluetooth service for Android to BLE devices connection.
 - Design and development of REST API using Django.
 - Design and development of question-answering chatbot using Keras. Responsible for sentiment analysis on Japanese text to detect meaning of different answers.
- Teaching Assistant, Dept. of CSE, Jahangirnagar University, Savar, Dhaka, Bangladesh (Apr. 2018 - Oct. 2018).**
 - Training and supervision of students in learning algorithms and data structures.

Online Problem Solving Experience

Platform	Username	Max Rating	Problem Solved
Codeforces	mahbubcseju	2021(among top 1%)	970
UVA	mahbubcseju	899 (among top 1%)	534
Codechef	mahbubcseju	2309 (among top 1%)	264
Hackerrank	mahbubcseju	2345(among top 1%)	216

Online Courses Certifications

1. Neural Networks and Deep Learning, Coursera, **Credential:** [6EWNLF6MAFJW](#)
2. Artificial Intelligence A-Z™: Learn How To Build An AI !, Udemy, **Credential:** [UC-HIFTT79A](#)
3. Deep Learning and NLP A-Z™: How to create a ChatBot !, Udemy, **Credential:** [UC-9UWVFG2S](#)
4. Deep Learning, Transfer Learning and Turtles, Udemy, **Credential:** [UC-SKLLIA0K](#)
5. Internet Of Things- From Beginner To Making You First Device, Udemy, **Credential:** [UC-GPI5ZE8S](#)

Personal Projects

1. Exam controller office management system using Python, Django, HTML5, CSS.
2. Bidding/Auction System using Python, Django, HTML5, CSS.
3. Tracking football on real time video using deep learning.
4. Image editing tool for stitching two or more images using MATLAB.
5. Best path finding for a drone inside a room using python and shortest path algorithms.
6. Side channel attack on elliptic-curve cryptography for BLS curve using C, C++ and Python.

Community Activities

1. Problem Setter, National Girls Collegiate Programming Contest, Bangladesh, 2018.
2. Campus Ambassador, GeeksforGeeks, Jahangirnagar University, Bangladesh (Aug. 2018 - Oct. 2018).
3. Manager, Programming Club, Jahangirnagar University, Bangladesh (Mar. 2017 - Jun. 2018).
4. Problem Setter, Intra University Programming Contest, Bangladesh, (Feb. 2015 - Jun. 2018).