

Md. Zubair

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Educational Qualifications

- B.Sc. in Computer Science and Engineering, Department of Computer Science and Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram, Bangladesh.
 - CGPA 3.64 out of 4 (76.8% marks). Last 4 semesters CGPA 3.74 (Avg.).
 - **12th among 120 students.**
 - Study Period: February, 2016 - June, 2021

Job Experience

- **Lecturer** - *Uttara University, Dhaka, Bangladesh*
Department: Computer Science and Engineering
Conducted Courses: ML, AI, OOP Python, Statistics, Data Structure and Algorithm
Duration: August, 2021 - Present
- **Technical Writer (Remote)** - *Deepnote, Inc., USA*
Responsibility: Writing 2 or 3 articles on data science per month
Duration: August, 2023 - Present

Research Experiences

- **4+ years** of research experience with Dr. Iqbal H. Sarker, Research Fellow, Centre for Securing Digital Futures, Edith Cowan University, Perth, WA 6027, Australia
- One year thesis experience under the supervision of Dr. Muhammad Ibrahim Khan, Prof. department of CSE, CUET.
- **Research Assistant of ML**
Three months of research experience with Dr. Ashad Kabir, faculty member of Charles Sturt University, Australia

Research Publications (Cited by 71)

- **Journal**
 - **Md Zubair**, Helge Janicke, Ahmad Mohsin, Leandros Maglaras, and Iqbal H. Sarker (2024). Automated Sensor Node Malicious Activity Detection with Explainability Analysis. Journal: **Sensors**, Switzerland. (*Q1, IF=3.4, CiteScore=7.3*). DOI: <https://doi.org/10.3390/s24123712>
 - **Md Zubair**, Md. Shahidul Salim, Mehrab Mustafy Rahman, Mohammad Jahid Ibna Basher, Shahin Imran, and Iqbal H. Sarker (2024). Agricultural Recommendation System based on Deep Learning: A Multivariate Weather Forecasting Approach. Journal: **Agricultural Systems**, UK, **Elsevier: ScienceDirect**. (*Q1, IF=6.6, CiteScore=11.9*). arXiv preprint version (Under Review). DOI: <https://doi.org/10.48550/arXiv.2401.11410>

- F.T. Johora, M.S. Islam, E. Kanon, and M.A.T. Rony, **Md Zubair** and Iqbal H. Sarker (2024). A Data-Driven Predictive Analysis on Cyber Security Threats with Key Risk Factors. Journal: Data Science and Management, China, **Elsevier: ScienceDirect**. ($Q1$, $IF=2.9$, $CiteScore=7.5$). arXiv preprint version (Under Review) DOI: <https://doi.org/10.48550/arXiv.2404.00068>
- **Md Zubair**, MD. Asif Iqbal, Avijeet Shil, M. J. M. Chowdhury, Mohammad Ali Moni and Iqbal H. Sarker (2022). An Improved K-means Clustering Algorithm Towards an Efficient Data-Driven Modeling. Annals of Data Science, Germany, **Springer Nature**. ($Q2$, $IF=3.42$, $CiteScore=6.3$). DOI: <https://doi.org/10.1007/s40745-022-00428-2>

• Conference

- Forkan Uddin Ahmed, Annesha Das, and **Md Zubair** (2024). “A Machine Learning Approach for Crop Yield and Disease Prediction Integrating Soil Nutrition and Weather Factors,” in International Conference on Advances in Computing, Communication, Electrical, and Smart Systems (iCACCESS), Dhaka, Bangladesh, **IEEE**, pp. 1-6.
DOI: <https://doi.org/10.1109/iCACCESS61735.2024.10499459>
- **Md Zubair**, Sibbir Ahmed, Ashim Dey, Annesha Das, and Md. Mahadi Hasan (2021). “An Intelligent Model to Suggest Top Productive Crops Based on User Location in Context of Bangladesh.” in 3rd International Conference on Smart Systems: Innovations in Computing, India, **Springer**, pp 289–300. DOI: https://doi.org/10.1007/978-981-16-2877-1_26
- **Md Zubair**, MD. Asif Iqbal, Avijeet Shil, Enamul Haque, Mohammed Moshikul Hoque, and Iqbal H. Sarker (2020). “An Efficient K-Means Clustering Algorithm for Analysing COVID-19,” in 20th International Conference on Hybrid Intelligent Systems (HIS), USA, **Springer**, pp. 422–432.
DOI: https://doi.org/10.1007/978-3-030-73050-5_43
- Md. Sabir Hossain, **Md. Zubair**, Mohammad Obaidur Rahman, Muhammad Kamrul Hossain Patwary, and Md. Golam Sarwar Rajib (2019). “A Modified Naïve Bayesian-based Spam Filter Using Support Vector Machine,” in 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT), Bangladesh, **IEEE**, pp. 1–7.
DOI: <https://doi.org/10.1109/ICASERT.2019.8934629>

Data Science Content Writing

- Official Author of **Medium** publisher *Towards Data Science*, *Towards AI*, and *DataDrivenInvestor*. Profile link **Medium-Profile**. Published 44 articles with 350k+ views.
- **ABC of DataScience and ML** is a popular space at **Quora**. I have created the blog in the last year. Within a year, it crossed 89.1k+ followers. There are about 12 contributors.

Research Projects

- High-Performant Bangla OCR with Fine-Tuned Large Language Model (Ongoing)
- Hypertension Risk Prediction and Preliminary Medical Suggestion Using Machine Learning. (B.Sc. Thesis)

Voluntary Experiences

- **Tier-2 Learning Assistant**-Dataquest
Duration: March, 2022- Present
Responsibilities –
 - Helping new learners
 - Solving any problems and answering questions related to data science

- **Research Coordinator** - *CUET Computer Club*

Duration: September, 2019 - December, 2020

Responsibilities –

- Coordinating undergraduate student's research
- Research team management
- Organizing seminars and events

- **Community Moderator - Dataquest**

Duration: March, 2020 - August, 2020

Responsibilities –

- Reviewing guided data science related projects and providing suggestions for improvement
- Helping the other students to learn data science and grow
- Solving different types of coding issues and technical difficulties

Undergraduate Project and Thesis Supervision

- Automated Bangla Text Generation with LSTM. (Thesis)
- Detecting Stage of Pneumonia from X-Ray Image Using Deep CNN and Preliminary Medical Suggestion. (Thesis)
- Mobile Application for Veterinary Medical Assistant. (Project)
- Mobile Application for University Students. (Project)

Internship Experience

- 1 month internship experience at SELISE rockin' software Ltd.

Duration: August, 2019 - September, 2019

Mentoring

- I have mentored about 3 data science enthusiast teams and helped them to learn data science with hands-on experience.

Software and Programming Language Skills

- PYTHON (Machine Learning, Deep Learning, Data Analysis, Data Visualization)- 2 years experience.
- C and C++
- Java
- LaTeX
- HTML, CSS, Javascript (Intermediate level)
- Tableau(Aesthetic Data Visualization)

Projects

- **Automatic Attendance System**- Detect the students' faces, and create an Excel sheet with the students' id and name via a camera feed.
- **Portfolio Website** - I have created my personal website using CSS, HTML, Javascript. Visit the [website](#).
- **Krisokbondhu** - ML and DL Based Intelligent Mobile Application
 - Users can find top-productive crops based on the user location of a session.
 - Able to detect the crops' disease from leaf images and get probable solutions.
 - Presentation slide of the project [here](#).
- **Dormitory Resource Kit** — Student Residential Dormitory Management System
 - I have developed the project for maintaining our student residential dormitory for Chittagong University of Engineering and Technology (CUET)
 - The used programming language is Java
 - Database - Oracle
- Many tiny Data Science related projects

Award and Scholarship

- “IEEE Best Research Idea Award” by IEEE computer society Bangladesh section
- Bangladesh Government Technical Board's merit scholarship.

Online Courses

- **Coursera Platform**
 - Machine Learning by *Stanford University*
 - Introduction to Data Science in Python by *University of Michigan*
 - Machine Learning with Python by *IBM*
 - Deep Learning Specialization (5 Courses) by *DeepLearning.AI*
- **Dataquest Platform**
 - Data Analyst in Python
 - Data Scientist in Python

REFEREES

- Dr. Iqbal H. Sarker
Research Fellow
Centre for Securing Digital Futures, Edith Cowan University, Perth, WA 6027, Australia.
Email: m.sarker@ecu.edu.au
- Dr. Md. Mijanur Rahman
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I hereby declare that the above-mentioned information is true and authentic to the best of my knowledge.
Name: Md Zubair