

Md. Asif Iqbal

✉ asifiqbalsagor123@gmail.com

🏠 [Asif Iqbal](#)

☎ +8801862-444958

🌐 [iamasifiqbal](#)

📖 [\[ResearchGate\]](#)

🎓 [\[Google Scholar\]](#)



🏛️ ACADEMIC RECORDS

- B.Sc. in Computer Science & Engineering from **Chittagong University of Engineering and Technology (CUET)**; CGPA: **3.65/4.00**, Rank - 11th
- **Training of Trainers(ToT)** from **IIT Kharagpur(IITKGP)** & **IIT Guwahati(IITG)** under [BDSET project](#)

🏢 INDUSTRY EXPERIENCE

- **Senior Assessment Developer**, [Workera.ai](#), 2021-present
 - I design, develop, and implement high-quality assessment engines and processes. Beyond my core responsibilities, I play a pivotal role in shaping the team's strategic direction. I lead initiatives to streamline development workflows, enhance the quality of assessments, and align our objectives with organizational goals.
 - **AI and ML Senior Instructor**, [IT Business Incubator \(ITBI\)](#), [CUET](#), 2024- present
 - I develop and deliver courses aligned with industry standards to equip participants with cutting-edge knowledge in Artificial Intelligence and Machine Learning. I curate course content, facilitate hands-on training, and mentor learners in applying real-world AI/ML solutions.
 - **Instructor**, [Bangladesh-Bharat Digital Service and Employment Training \(BDSET\) project](#); 2024-present
 - **Instructor**, [Enhancing Digital Government and Economy \(EDGE\) project](#), **IICT CUET DST**; 2024-present
 - I spend some amazing time with young minds, introducing them to programming languages and other concepts related to computer science.
 - **Former Intern**, **IIT Kharagpur (IITKGP)**; **Supervisor: Prof. Dr. Debasis Samanta**
 - **Former Research Assistant**, Computer Science & Engineering, **Chittagong University of Engineering and Technology**, Chittagong, Bangladesh; **Supervisor: Prof. Dr. Mohammed Moshikul Hoque**
- Undergraduate Research Topic:** Multilabel Aggression detection from text.

📖 COURSE WORK

- DevOps and MLOps Course - Udemy
- Machine Learning- Coursera
- Data Analyst & Data Scientist - dataquest.io
- Deep Learning Specialization - Deeplearning.ai
- Big Data - Contessa
- Introduction to Quantum Computing - IBM Quantum
- ICSI | CNSS Certified Network Security Specialist

🏆 ACHIEVEMENT

- **Passed ITEE – FE Exam 2019** conducted by the Japanese Government.
- **70% Scholarship Winner**, 2021 ISCEA PTAK PRIZE GLOBAL CASE COMPETITION
- **Winner** of Poster Presentation at CUET CSE Fest - 2018

🌀 CO-CURRICULAR EXPERIENCE

- **Secretary**, **IEEE YP Bangladesh**, 2022-2023
- **Team Member**, **CUET NLP LAB**, 2019 - present
- **Treasurer**, **IEEE Student Branch**, **CUET**, 2019-2020
- **Tournament Collaborator**, **HULT Prize** at **CUET 2020**
- **Team Leader**, **Team RUBY**, **HULT Prize** at **CUET, 2020**
- Participate in **IEEE Tensymp 2020**, **ICO 2020**, **ICNST'18**
- **Logistic**, **IEEE Student Branch**, **CUET**, 2018-2019

- Campus Ambassador, IEEE CS BDC Winter Symposium 2020, IEEE STEP 2020 & SPAC 2018
- Volunteer at CLBLP 2019, ECCE

✓ SKILLS

Language	Python, C, C++, Bash, MySQL, JavaScript, Java, Verilog HDL
Libraries	NLTK, Scikit-learn, Gensim, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, PyTorch, Docker, Kubernetes, MLflow
Frameworks	Jupyter, Git, Latex

✓ INDUSTRY SKILLS

- Natural Language Processing (NLP)
- Machine Learning
- Artificial Intelligence
- CCNA (exploration – 1)
- Quantum Computing
- MLOps
- Data Analyst & Data Scientist
- Deep Learning
- Network Security
- IT Support Professional
- DevOps
- Large Language Model (LLM)

Language: Bengali, English, Hindi

PROJECT

- Research on Natural Language Processing
 - ◆ Developing and Annotation of a Dataset, low-resource NLP, Emotion Classification Semantic Similarity Measure.
- Machine Learning Algorithm Development
 - ◆ Refinement of K-means clustering with less computation cost.
- Machine Learning for Health
 - ◆ To understand the COVID-19 impact on each country. Also, to cluster patients according to their habits.
- Website for Teacher (Local Host-based) - 2017
 - ◆ A lab word, where I used Bootstrap, HTML, and CSS to build websites for Teachers.
- Obstacle Avoiding Robot - 2017
 - ◆ An Arduino-based robot can detect an obstacle and avoid it accordingly, and reach the endpoint.
- Line follower robot - 2017
 - ◆ An Arduino-based robot that can change direction according to its route.
- Airline Scheduling with MAX Flow Algorithm - 2017
 - ◆ An optimized algorithm for an Airplane can maximize its profit with sufficient resources.
- Footbot - 2016
 - ◆ An Arduino-based robot, controlled by Bluetooth, is used for Robo-fight.
- Classroom Scheduling (with Java) - 2016
 - ◆ A Java application used for scheduling the classrooms & labs of the university.

Publications

- Ricko Shaha, Dipon Talukder, **MD. Asif Iqbal**, Md. Mokammel Haque, “TOS: A Relative Metric Approach for Model Selection in Machine Learning Solutions”, (IEEE RAICON 2021) [\[Paper\]](#)
- **MD. Asif Iqbal**, Avishek Das, Omar Sharif, Mohammed Moshikul Hoque, Iqbal H. Sarker, “BEemoC: A Corpus for Identifying Emotion in Bengali Texts”, (Submitted to SN Computer Science)
 - ◆ In this work, we presented a new corpus (called BEemoC) for classifying the expression of emotion in Bengali texts and explained its development processes in detail.
- **Md. Asif Iqbal**, Omar Sharif, Mohammed Moshikul Hoque and Iqbal H. Sarker, “Word Embedding based Textual Semantic Similarity Measure in Bengali”, (YSC 2021)
 - ◆ This paper proposed word embedding-based techniques (Word2Vec, GloVe, FastText) devoted to estimating the semantic similarity between Bengali sentences. Due to the unavailability of the standard dataset, this work developed a Bengali dataset containing 187031 text documents with 400824 unique words named SemSD.
- Md. Zubair, **MD. Asif Iqbal**, Iqbal H. Sarker, Avijeet Shil, Enamul Haque, Moshikul Haque, “An Improved K-means Clustering Algorithm to Reduce the Computational Cost”, (International Journal of Data Science and Analytics) [\[Paper\]](#)
 - ◆ In this paper, we proposed an efficient algorithm that can determine the initial centroids of the k-means algorithm and analyze their aspect on different types of datasets.
- Fatima Jahara, Adrita Barua, **Md. Asif Iqbal**, Avishek Das, Omar Sharif, Mohammed Moshikul Hoque and Iqbal H. Sarker, “Towards POS Tagging Methods for Bengali Languages: A Comparative Analysis”, (ICO 2020) [\[Paper\]](#)
 - ◆ In this paper we make a comparative analysis of the tagging methods that were performed using two tagsets (30-tag and 11-tag) with accuracy measures.
- Avishek Das, **Md. Asif Iqbal**, Omar Sharif and Mohammed Moshikul Hoque, “BEemoD: Development of Bengali Emotion Dataset for Classifying Expressions of Emotion in Texts”, (ICO 2020) [\[Paper\]](#)
 - ◆ This paper presents an emotional dataset (hereafter called ‘BEemoD’) for analysis of emotion in Bengali texts and describes its development process, including data crawling, pre-processing, labeling, and verification.
- Md Zubair, **MD Asif Iqbal**, Avijeet Shil, Enamul Haque, Mohammed Moshikul Hoque, Iqbal H Sarker, “An Efficient K-means Clustering Algorithm for Analysing COVID-19”, (HIS 2020) [\[Paper\]](#)
 - ◆ In this paper, we proposed an efficient K-means clustering method that determines the initial centroids of the clusters efficiently. Based on this proposed method, we had determined health care quality clusters of countries utilizing the COVID-19 datasets.
- Nayan Das, **MD Asif Iqbal**, “Nearest Blood & Plasma Donor Finding: A Machine Learning Approach”, (ICCIT 2020) [\[Paper\]](#)
 - ◆ In our whole project, we had built a platform for the blood donor and receiver. We had combined two well-known clustering algorithms, k-means, and agglomerative clustering, to solve the blood donor problem.
- **MD Asif Iqbal**, “A Fully Automatic Transport System with LoRa and Renewable Energy Solution”, (IEEE Tensymp 2020) [\[Paper\]](#)
 - ◆ This paper proposed an overview of making a new automatic robotic vehicle system.
- **MD. Asif Iqbal**, Md Sabir Hossain, Abir Ebna Harun, “Airline Scheduling With MAX Flow Algorithm”, (ICNST’18 publication) [\[Paper\]](#)
 - ◆ In this research work, we have tried to take input from both the admin and customer. A customer can get information about flight and the admin will access everything they want.
- Suborno Deb Bappon, **MD. Asif Iqbal**, “Classification of Tourism Reviews from Bengali Texts using Multinomial Naïve Bayes”, (ICCIT 2022) [\[Paper\]](#)