M Mohaiminul Islam

github.com/mohaiminul NiloyCste.com linkedin.com/in/mohaiminul niloy8649@gmail.com
+8801304869568 leetcode.com/mohaiminul Kaggle.com/mohaiminul

Education

South Asian University, New Delhi, India 2022
Master of Science in Computer Science *Total CGPA: 3.25/4.0*

Noakhali Science and Technology University 2019
Bachelor of Engineering in Computer Science and Telecommunication Engineering
Total CGPA: 3.14/4
Last 4 semesters: 3.34/4

Comilla Victoria Govt College, Bangladesh
Higher Secondary Certificate *GPA: 5.00/5.00*

Comilla Modern High School, Bangladesh
Secondary School Certificate *GPA: 5.00/5.00*

Research Interests

- Regression-Based Multi-Label Learning Models.
- Machine Learning and Deep Learning, especially in NLP and Computer Vision.
- Blockchain technology in decentralized systems.
- Big data analytics, including processing, storage, and predictive modeling.

Projects

Brain Tumor Detection using CNN | *CNN, ETL, Keras, PyTorch, Google Collab* Feb 2019
- I created an AI system using advanced image processing and deep learning to accurately identify brain tumors in MRI scans, assisting in early diagnosis and treatment planning for medical professionals. **Link**

MultiLabel Quotations Classifier | *Python,Selenium, NLP, HuggingFace,ONXX, Blurr, Transformers,Render* April 2023
- This project presents an end-to-end multilabel text classification system covering data collection, model training, and deployment. The model is designed to classify 138 distinct quotation genres. For a comprehensive list of identified quote genres. **Link**

Vehicles Image Recognizer | *PyTorch, Fastai, ETL, Hugging-Face, Google Collab* Dec 2023
- The Vehicle Image Recognizer automatically identifies and categorizes various vehicles in images, including cars, motorcycles, helicopters, boats, and more. **Link**

Ecommerce Data Analysis | *Python, MySQL, Pandas, Matplotlib, Apache Spark, Tableau, Data Modeling, ETL, AWS* April 2021
- Utilized advanced data visualization to uncover insights, identify growth opportunities, and optimize business strategies by analyzing sales patterns, customer behavior, and product trends. **Link**

Decentralised Supply Chain Management System | *Python, Smart Contract, MySQL, VS Code* Dec 2020
- Implemented a decentralized blockchain for supply chain optimization, utilizing smart contracts and real-time tracking to enhance transparency, reduce fraud, and ensure product authenticity. **Link**

Predicting Customer Churn | *Python, Pandas, Matplotlib, Machine Learning, ETL, Google Collab* July 2022
- Created a machine learning model predicting customer churn by analyzing a dataset containing customer attributes, account details, and churn status. **Link**

Prison Management System | *PHP, HTML/CSS, Node.js, MySQL, Git, Unix Shell, VS Code* May 2017
- Developed a desktop application for managing prison details, including prisoner addition, updating, and searching. **Link**

Cryptocurrency Market Analysis | *Python, Selenium, Tableau* Oct 2023
- Aimed at extracting valuable insights from the cryptocurrency market. **Link**

Thesis

BSc Thesis Project: Recognition and Classification of Reptile Species using Deep Learning Techniques

Supervisor: Koushik Chandra Howlader 2017-2018

- Developed a research project focused on leveraging deep learning techniques for the automatic identification and categorization of reptile species using visual data.

MSc Thesis: On Defining Regions by Data Clustering for Increasing the TPS Rate of State-Based Blockchain

Supervisor: Dr. Amit Banerjee 2020-2021

- Explored techniques, including the K-Means Clustering algorithm and parallel mining with a region-based concept, to enhance the transaction per second (TPS) rate of state-based public blockchains. This research addressed the limitations posed by sequential mining and aimed to improve the efficiency of blockchains for applications with high network loads, such as supply chain management systems or trading.

Standardized Test Scores

★ IELTS Overall Band Score:7.5 (L-8.5, R-8, W-6.5, S-6.5)
Date Taken: 7-10-2021

Skills

Languages: C/C++, Java, Python, Mysql, Golang
Tools: Git/GitHub, Web Scraping, Selenium, Unix Shell, Tableau,Power BI,Pytorch,Keras, Tensorflow, Aws,Docker,Tableau,Visual Studio, Google Collab, MySql Workbench, Logisim, Latex,render

Libraries: pandas, NumPy,Fastai,Yolov5,HuggingFace Transformer Matplotlib

Research and Professional Experience

Lab Instructor, Department of CSTE at NSTU | *Mentor* 2017
I taught drawing and designing basic Gates, Adder, Encoder, Decoder, ALU, register and finally draw single cycle datapath 32 bit MIPS processor

South Asian University | *Research Scholar* July 2019 – June 2021
As a Research Scholar at South Asian University, I collaborated closely with Dr. Amit Banerjee and Dr. Mohd Sameen Chishti Together, we conducted cutting-edge research, explored innovative solutions, and contributed to academic advancements in the blockchain and machine learning fields. This experience enriched my research skills and expanded my knowledge in the academic domain.

Ahom Limited | *Blockchain Researcher* Sep 2022 – April 2023
As a blockchain researcher, my focus is on creating more efficient consensus mechanisms to enhance speed and streamline the mining process in blockchain systems

MasterCourse | *Data scientist* Sep 2023 – Continue
Interning in data science, I applied diverse ML models, both supervised and unsupervised, to tackle real-world challenges. Specializing in CNNs for computer vision tasks, I gained hands-on experience with PyTorch, Keras, and NLP

Honours and Awards

Merit Scholarship at South Asian University for the fall, winter, and spring quarters.

2nd runner-up in the regional Math Olympiad in 2012.

1st runner-up in an intra-school debate competition.

16th rank in the Secondary School Certifications Exam within Comilla board.

Received a scholarship in the Higher Secondary Certificates Exam.

Volunteering Work

NSTU Blood Donors Society: Actively participated as a member, dedicating time and efforts to various volunteer activities promoting and facilitating blood donation.

CSTE Club: Executive member involved in setting up and running webinars, seminars, and programming contests.