M Mohaiminul Islam

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Education

South Asian University, New Delhi,India July 2021
Master of Science in Computer Science *Total CGPA: 3.25/4.0*
Noakhali Science and Technology University Dec 2018
Bachelor of Engineering in Computer Science and Telecommunication Engineering
Total CGPA: 3.14/4
Last 4 semesters: 3.34/4

Relevant Coursework

Courses: Intro to Programming, Object-Oriented Programming, Data Structures and Algorithm, Database Management System, Computer Architecture, Computer Network, Compiler Design, Digital Logic Design, Artificial intelligence, Cryptography and Network Security, Operating Systems, Data Mining, Vector Analysis and Laplace Transform and Fourier Analysis, Numerical Analysis, Differential and Integral Calculus, Discrete Mathematics, Linear Algebra, Probability and Statistics, Software Engineering
Awards: Merit Scholarship (at South Asian University, for the fall, winter, and spring quarters each)

Research Interests

- Developing Regression-Based Multi-Label Learning Models.
- Exploring the realms of Machine Learning and Deep Learning, particularly focusing on Computer Vision applications for in-depth analysis of images and videos.
- Blockchain technology and its applications in decentralized systems.
- Big data analytics, including data processing, storage, and predictive modeling.

Skills

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

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.

Projects

Ecommerce Data Analysis | *Python,Mysql,Pandas,Matplotlib,Apache Spark,Tableau,Data Modeling, ETL,AWS* April 2021

- I leveraged advanced data visualization techniques to extract valuable insights from a comprehensive dataset. By visualizing sales patterns, customer behavior, and product trends, I identified key growth opportunities and provided actionable recommendations to optimize business strategies and enhance overall performance.

Brain Tumor Detection using CNN | *CNN,ETL,Keras,PyTorch,Google Collab* Feb 2018

- I developed an AI-driven system utilizing medical imaging data. Employing advanced image processing and deep learning techniques, I created a model to accurately identify and classify brain tumors from MRI scans. This project aims to assist medical professionals in early diagnosis and treatment planning

Supply Chain Management System | *Python, Smart Contract,Mysql, Git, Unix Shell, VS Code* Dec 2020

- I designed and implemented a decentralized blockchain solution to optimize and secure supply chain operations. Leveraging smart contracts, immutable ledgers, and real-time tracking, this system enhances transparency, reduces fraud, and ensures the authenticity of products throughout the supply chain, ultimately improving efficiency and trust.

Predicting Customer Churn | *Python,Pandas, Matplotlib, Machine Learning,ETL,Google Collab* July 2022

- I build a machine learning model that can predict which customers are most likely to churn. This task involves working with a dataset that includes various customer attributes, account details, and their churn status (whether they have left the company's service)

Prison Management System | *PHP, HTML/CSS, Node.js,Mysql, Git, Unix Shell, VS Code* May 2017

- A desktop application to manage the details of the Prison, adding and updating prisoners, searching prisoner and their information.

Standardized Test Scores

★ IELTS Overall Band Score:7.5 (L-8.5, R-8, W-6.5, S-6.5)
Date Taken: 11-12-2022

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 – April 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.

MasterCourse | *Data scientist* Sep 2021 – Feb 2022
During my data science internship, I applied various machine learning models, including both supervised and unsupervised approaches, to address complex real-world problems. Additionally, I gained hands-on experience in deep learning, specifically in Convolutional Neural Networks (CNNs), while working on computer vision tasks. I acquired proficiency in tools such as PyTorch and Keras during this practical experience.

Ahom Limited | *Data Engineer* April 2022 – March 2023
I am responsible for architecting and developing data pipelines, ETL and ELT processes, Data Modeling, optimizing data storage and retrieval, and ensuring data quality and availability. I work with diverse data sources, technologies, and tools to support data-driven decision-making and drive organizational growth.

MasterCourse | *Trainee Data scientist* Sep 2023 – Feb 2024
During my data science internship, I applied various machine learning models, including both supervised and unsupervised approaches, to address complex real-world problems. Additionally, I gained hands-on experience in deep learning, specifically in Convolutional Neural Networks (CNNs), while working on computer vision tasks. I acquired proficiency in tools such as PyTorch and Keras during this practical experience.