



Monirul Islam Mahmud

Researcher, Data Scientist and Web Developer

Experienced researcher and data scientist passionate about unravelling complex patterns and extracting meaningful insights from data. Proficient in Data Analysis using Power BI and Tableau, SQL and Machine Learning. Also a highly motivated Web Developer skilled in HTML, CSS, PHP and Python with Django and Flask framework.

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EDUCATION

B.Sc in Computer Science & Engineering North South University

2020 - 2023

CGPA - 3.42

Higher Secondary Certificate Govt. Hazi Mohammad Mohsin College

2018 - 2019

GPA - 5.00

Secondary School Certificate Govt. Muslim High School

2011 - 2017

GPA - 5.00

WORK EXPERIENCE

Research Assistant (RA) DIAL: Design Inclusion and Access Lab

07/2023 - Present

Working on the "Feasibility of Alternative Credit Scoring for the Credit Invincibles of Bangladesh" project as a Research Assistant at DIAL under the supervision of Dr. Nova Ahmed.

Machine Learning Instructor Hire & Train Program, EDGE Bangladesh

12/2023 - 02/2024

Bangladesh Government has launched the 'Hire and Train Program' to impart training and employment of 20,000 IT graduates by 2026. I worked as a Machine Learning instructor in this program.

Trainee Engineer (Data Science) Systech Datasoft

08/2023 - 12/2023

Served as a Data Science Intern and worked on the project entitled "Resume Screening using NLP and Resume Parser." My basic foundation in Power BI and Tableau build here.

Volunteer (Team Content Writing) IEEE NSU Student Branch

03/2021 - 08/2022

IEEE NSU Student Branch (INSB) is a technical subunit of IEEE societies that associates with valuable resources available from IEEE. Worked on the team Content Writing in this club.

SKILLS

Data Visualization

Machine Learning

Power BI

Communication

Problem Solving

SQL

Tableau

Excel

Trello

Python

Django

Flask

R

PROJECTS

Human Activity Recognition using Sensor Data: A Federated Learning Approach.

Activity Recognition project for Elderly people with Accelerometer and Gyroscope data. Federated Learning Technique is applied here for user data privacy. Also, Explainable AI (XAI) techniques SHAP and LIME are used in this project.

Diabetic Foot Ulcer Detection using Explainable AI: A Deep Learning Approach.

Foot Ulcer Detection project is done using different foot images, where image process is done with different Explainable AI techniques.

Ischemic Stroke Prediction using PCA, different Resampling technique & WebApp.

Merged dataset of public and collected healthcare data is used in this project where different types of resampling techniques, Machine Learning, Deep Learning and PCA used. Additionally, XAI techniques SHAP and LIME are implemented for transparent result. Lastly, a complete Web App is developed for this predictive analysis project.

Alternative Credit Scoring prediction using different Machine Learning, Deep Learning techniques and XAI.

Merged dataset of public and collected Bank data is used here. Also, different XAI techniques are implemented to explain the Blackbox machine learning models.

CERTIFICATES

Google Data Analytics Professional Certificate (2023)

IBM Data Science Professional Certificate (2024)

INTERESTS

Artificial Intelligence

Data Science

Computer Vision