

Monirul Islam

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Fort Hamilton, Brooklyn, New York 11219
Portfolio | GitHub | LinkedIn | Scholar

EDUCATION

Georgia Institute of Technology

Atlanta, Georgia, United States

M.S. in Data Analytics

Major in Business Analytics Track

Fordham University

New York City, United States

M.S. in Computer & Information Science

CGPA: 3.67 - GSAS Centennial Scholarship holder

North South University

Dhaka, Bangladesh

B.Sc in Computer Science & Engineering

CGPA: 3.43

PROFESSIONAL EXPERIENCES

Design Inclusion & Access Lab - DIAL

Jul. 2023 – Aug. 2024

Research Assistant (RA)

- * Collaborated on the 'Feasibility of Alternative Credit Scoring for the Credit Invincibles of Bangladesh' project funded by **NSU-CTRG (CTRG-23-SEPS-02)**.
- * Working on 'Impact of Generative AI in Computer Science in context of Bangladesh', 'Trustworthy Attention Residual Convolutional Network based DeepFake Detection using LIME' and 'Federated Learning based secured Diabetic Foot Ulcer Detection using GradCam' project. **Certificate**

Systech Datasoft, Dhaka

Aug. 2023 – Dec. 2023

Trainee Engineer (Data Science)

- * Developed an automated resume screening system for Systech Datasoft, Dhaka, using a dataset of public and collected candidate data to accurately predict suitability for positions with **97.92%** accuracy. **Certificate**

RECENT PROJECTS

Unveiling the LinkedIn Job Hunt: Skill, Industry, and Salary Trends in the USA

- * Developed an interactive **Tableau** visualization analyzing LinkedIn job trends across various industries, skill demands, and salary ranges in the USA. Highlights include dynamic storytelling through charts and maps, providing actionable insights for job seekers and Employers.

Empowering Elderly: Federated Learning for Activity Recognition with Mobile Sensor Data

- * Activity Recognition for Elderly people with **72,000 collected** accelerometer and gyroscope data from our developed mobile app. **Federated Learning** Technique with **3 local models** are applied here for user data privacy. Also, XAI techniques - **SHAP** and **LIME** are used in this project.

SKILLS

Language & Framework: Python, React.js, Typescript, Django, Flask, Tensorflow, Seaborn, Scikit Learn.

Database & Software: MongoDB, Cassandra, PostgreSQL, SQL, Trello, Jira, Latex, Tableau, Power BI, Excel.

Technical Skills: FastAPI, REST API, Kubernetes, Machine Learning, Explainable AI - (Permutation Feature Importance, Morris Sensitivity Analysis, GradCam, SHAP, LIME), Data Analytics - (R, A/B Testing).