

# Monirul Islam

Manhattan, NYC | 929-832-7339 | monirul.mahmud9@gmail.com

[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

## Experience

---

### Design Inclusion & Access Lab | Graduate Research Assistant

Jan 2024 - Feb 2025

Collaborated on the '*Feasibility of Alternative Credit Scoring*' for the Credit Invincibles project funded by NSU-CTRG (CTRG-23-SEPS-02), increasing Loan approval by 20%. [Certificate](#)

### Cosmic IT Ltd. | Junior Data Scientist

Sep 2022 - Dec 2023

Worked on "*Automating toll collection system by live scanning license plates on vehicles*". Collaborated extensively on creating charts and plots to visualize data, and building an interactive dashboard using Tableau, Google Looker Studio, D3.JS and Excel charts.

### Systech Datasoft | Trainee Engineer (Data Science)

Apr 2022 - Jul 2022

Customized an automated resume screening system with PDF parser for Systech Datasoft, using candidates' data to accurately predict suitability for positions with 97.92% accuracy. [Certificate](#)

## Recent Projects

---

### Ground based Sky Cloud Segmentation with U-Net

Developed a cloud segmentation model using a U-Net-based FCNN on ground-based optical imagery from 110 collected images. Handled modular training pipeline to allow easy scalability. [\[Source Code\]](#)

### Attention and Residual Mechanism Enhanced DeepFake Detection

Implemented DeepFake detection using ARC-Net enhanced with attention and residual mechanisms. Applied GradCAM and LIME for interpretability and visual explanation of facial forgeries. [\[Source Code\]](#)

### 3D Alveolar Bone Defect Segmentation via Unsupervised Domain Adaptation

Segmented alveolar bone defects using unsupervised domain adaptation on 3D DICOM data. Automated 3D data labeling and processing pipeline for cross-domain medical imaging analysis. [\[Source Code\]](#)

### Merkle Tree enhanced Decentralized and Secured Credit Scoring

Developed a Merkle Tree enhanced decentralized credit scoring system for data integrity and trust. Integrated SHAP and LIME for model explainability and transparent credit decision-making. [\[Source Code\]](#)

### 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. [\[Visit\]](#)

## Education

---

### Fordham University, New York

2024 - 2025

MSc. in Computer Science | CGPA: 3.83

### North South University, Bangladesh

2019 - 2023

BSc. In Computer Science & Engineering | CGPA: 3.43

## Skills

---

Python, R, Tensorflow, Scikit Learn, GAN, Transformer, Federated Learning, Flask, Docker, Fast API, AWS (Sagemaker), BigQuery, CI/CD, A/B Testing, Tableau, D3.js, PySpark, MongoDB, SQL, Trello, Jira, LaTeX.