

Nafisa Mehjabin

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EDUCATION

Computer Science, MS

George Mason University (GMU)

CGPA- 3.89/4.0

Courses: Analysis of Algorithms, Software Design and Architecture, Database Systems

Expected: May 2025

Fairfax, VA

Software Engineering, BS

Islamic University of Technology (IUT)

CGPA- 3.72/4.0

Courses: Data Structure, Object Oriented Concepts, Design Patterns, Server Programming

May 2022

Bangladesh

AWARD AND RECOGNITION

Accepted Poster, I-Week Graduate Student Poster Competition, GMU

Feb 2025

3rd Place- DataStorm, GMU Schar School of Policy and Government

Nov 2024

2nd Place- Misinformation and Disinformation Ideathon, R Street Institute & GMU

Apr 2024

EXPERIENCE

Tech Assistant I

Jun 2024 – Current

CVPA Tech Department, George Mason University

- Designed and automated a data categorization and tracking system for annual reporting, leveraging NLP text processing and Python to enhance reporting and decision-making.
- Developed and maintained the department's Intranet site and automated student evaluation report generation using Python, and Microsoft Automate to streamline faculty data access.

Research Intern

May 2024 – Aug 2024

George Mason University

- Investigated state-of-the-art Large Language Models (GPT-4, Gemini, Mistral) for real-world navigation and task planning. Assessed LLM performance through rigorous evaluation of navigation instructions, hallucination frequency, and coherence Analysis.
- Designed an LLM-driven PDDL-based planner across five domain models, leveraging LLM to construct world models. Pioneered a novel safety assessment framework to investigate LLMs' situational awareness, identifying potential risk mitigation strategies for autonomous decision-making systems.

Software Developer Intern

Feb 2021 – Jun 2021

LEADS Corporation Ltd, Bangladesh

- Developed the frontend for a new module of a Banking Solution using Vue JS, ensuring a responsive and engaging user interface that contributed to the successful migration from a monolithic system to a microservice architecture.
- Collaborated with designers to ensure that the frontend met user-centered design principles, delivering an interface that was both functional and aligned with business objectives.

PROJECTS

InsightLegi: State Legal Insights Dashboard | JavaScript, React, Vite

Developed the frontend for InsightLegi's data-driven dashboard using React and Vite, focusing on creating a responsive and engaging user interface that visualizes legal data like laws, penalties, and status for each state. Collaborated with the business team to ensure the dashboard met business objectives.

AI-Driven Predictive Modeling for Wheat Disease Classification | Python, TensorFlow, PyTorch, Transformers

Developed a predictive model to identify wheat diseases from plant images across diverse breed and regions, leveraging deep learning architectures like ResNet50 and Vision Transformers and implemented explainable AI techniques (Grad-CAM) to enhance model interpretability and understanding.

TECHNICAL SKILLS

Programming Language: Python, C, SQL, Java, MATLAB, SQL

AI & ML: Regression Models, Deep Learning Architectures, Supervised/Unsupervised Learning, NLP, Explainable AI

Tools: Oracle, PyTorch, HuggingFace Transformers, NLTK, SpaCy, Git, Jupyter Notebooks, Visual Studio Code