

Jannatul Ferdous

MS Applicant, Computer Science

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Research Interest

Machine Learning | Deep Learning | Computer Vision | Federated Learning | Cybersecurity

Research Experience

Conference Papers

Areas: Social Networks, NLP, Federated Learning, Machine Learning

- “Investigating the Efficacy of Machine Learning-Enhanced Mindfulness-Based Interventions for Individuals with Emotional and Intellectual Disabilities”(**ICCMEH 2024**)
- “FedRobo: Federated Learning Driven Autonomous Inter Robots Communication For Optimal Chemical Sprays”(Preprint-ArXiv)
- “Generative AI like ChatGPT in Blockchain Federated Learning: use cases, opportunities and future”(Preprint-ArXiv)

Academic Credentials

BS in Computer Science & Engineering

Bachelor's degree program

Major: Computer Science & Engineering

Final CGPA: 3.67 out of 4

University of Asia Pacific (UAP)

Sep. 2017 – Dec. 2021

Awards & Achievements

- 4th Position** : GIBL 31st Batch Foundation Training Program.
- Vice Chancellor's Award** : Vice Chancellor's Award for academic excellence.
- Dean's Award** : Multiple Dean's Awards for academic excellence.
- Runner-up** : Intra-Department Mathematics Olympiad.

Technical Skills

- Languages** : C, C++, Python, Java
- ML Tools** : NumPy, Pandas, Scikit-learn, Matplotlib
- ML Methods** : Regression, Classification, SVM, Decision Trees
- Web** : HTML5, CSS3, Bootstrap, JavaScript
- Databases** : MySQL, MongoDB
- Tools** : VS Code, PyCharm, LaTeX, Inkscape, MS Office

Professional Experience

Global Islami Bank PLC

Assistant Officer, Information Technology Division

Apr. 2022 - Dec. 2023

Dhaka, Bangladesh

- Ensured seamless digital banking operations as part of the ADC Services team.
- Monitored and managed DBMS systems to maintain data integrity and optimize performance.
- Utilized SQL for data verification, reporting, and analytical workflows.
- Performed SQA for the GIB Mobile App, improving reliability and feature accuracy.
- Prepared technical documentation and user manuals to support IT operations.
- Collaborated with vendors and cross-functional teams on system integration tasks.

Programming Skills

Problem solving

Programmer

2017 – 2022

Bangladesh

- Solved problems on platforms such as LeetCode and URI.
- Experienced in analyzing algorithmic efficiency (time and memory).
- Strong foundation in Data Structures and Algorithms (DSA), including graph theory and sorting techniques.

Undergrad Major Project

IoT based Intelligent Dustbin Monitoring System

IoT | Arduino Uno | Ultrasonic Sensor | GSM Module | Servo Motor

- Developed an IoT-enabled smart bin using ultrasonic sensors and a GSM module to monitor garbage levels and transmit real-time updates, enabling optimized collection routes and preventing overflow.

Online Exam-Room

Android | Java | Firebase

- Designed an Android-based online examination system with randomized question sets, real-time monitoring, time alerts, and secure upload tracking to support reliable and secure remote assessments.

Selective Undergraduate Coursework

C Programming | Python Programming | Object-Oriented Programming (Java) | Data Structures | Algorithms | Linear Algebra | Probability & Statistics | Artificial Intelligence | Operating Systems | Database Systems | Compiler Design | Numerical Methods | Discrete Mathematics