

# Jannatul Ferdous

MS Applicant, Computer Science

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## Academic Credentials

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### 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

## Professional Experience

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### Global Islami Bank PLC

Assistant Officer, IT Division

Apr. 2022 - Dec. 2023

Dhaka, Bangladesh

- Worked with the ADC Services team to ensure seamless digital banking operations.
- Monitored and managed the DBMS, maintaining data integrity and optimizing performance.
- Utilized SQL queries for data verification and analytical processing to support decision-making.
- Performed SQA for the GIB Mobile App, improving application reliability and functionality.
- Prepared technical documentation and user manuals to streamline operational processes.
- Collaborated with vendors and cross-functional teams to drive projects and deliver solutions.

## Awards & Achievements

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### 4th Position – GIBL 31st Batch

: Foundation Training Program at Global Islami Bank Ltd.

### Vice Chancellor's Award

: Honored for outstanding academic performance with a GPA of 3.93 in the final (eighth) semester.

### Dean's Award

: Honored for outstanding academic performance with GPA of 3.75+ in two out of eight semesters.

### Runner-up

: Secured 2nd place in the Intra-Department Mathematics Olympiad.

## Technical Skills

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### Languages

: C, C++, Python, Java

### Libraries

: Pandas, Scikit-learn, Numpy, Matplotlib

### Machine Learning

: Regression, Classification, SVM, Decision Trees

### Frameworks

: HTML5, CSS3, Bootstrap5, JavaScript

### Database

: MySQL, MongoDB

### Others

: VS Code, PyCharm, Code::Blocks, MATLAB, LaTeX, Inkscape, MS Word, MS Excel, MS PowerPoint

# **Research Experience**

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## **Conference Papers**

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

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

# **Programming Skills**

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## **Problem solving**

*Programmer*

*2017 – 2022  
Bangladesh*

- Solved numerous problems on various online coding platforms like LeetCode and URI
- Experienced in analyzing program efficiency in terms of time and memory complexity
- Proficient in Data Structures and Algorithms, including Graph Theory, Sorting Algorithm.

# **Undergrad Major Project**

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## **IoT based Intelligent Dustbin Monitoring System**

*IoT / Arduino Uno / Ultrasonic Sensor / GSM Module / Servo Motor*

- It's an innovative idea that transforms a regular bin into an intelligent one by using ultrasonic sensors to detect garbage levels. The system sends updates to the garbage collector about the bin's status using a GSM module.

## **Online Exam-Room**

*Android / Java / Firebase*

- An Android-based online exam platform with an integrated monitoring system, designed for seamless administration of exams in distance learning programs. It features functionalities such as random question generation, real-time monitoring, time notifications, photo/PDF capture, and a secure upload history.