

# MOST MARUFATUL JANNAT MIM

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## Research Interest

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Computer Vision - Deep Learning - Medical Image Analysis - Machine Learning

## Education

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🎓 **United International University (UIU), Dhaka, Bangladesh** 2019 - 2024  
B.Sc in Computer Science and Engineering  
**Thesis:** Movie Genre Prediction Using Graph Convolutional Neural Networks  
**Supervisor:** Dr. Md. Saddam Hossain Mukta, Post-doctoral Researcher, LUT, FI  
**Major:** Data Science  
(CGPA: 3.62/4.00)

## Publications

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- [1] Mohaimenul Azam Khan Raiaan, Md Saddam Hossain Mukta, Kaniz Fatema, Nur Mohammad Fahad, Sadman Sakib, **Most Marufatul Jannat Mim**, Jubaer Ahmad, Mohammed Eunus Ali, Sami Azam, "A Review on Large Language Models: Architectures, Applications, Taxonomies, Open Issues and Challenges," IEEE Access, 2024. [\[Paper\]](#).
- [2] **Most Marufatul Jannat Mim**, Ripon Kumar Debnath, Dr. Dewan Md. Farid, "Applying Deep Convolutional Neural Network for Classification of Black Gram Plant Leaf Disease," 26th International Conference on Computer and Information Technology (ICCIT), 2023. [\[Paper\]](#).

## Work Experience

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- **Research Engineer (Data Science)** September 2024 - Present  
AIMS Lab, United International University  
- Applied machine learning and deep learning algorithms for disease prediction from physiological data.  
- Performed data visualization and mining.  
Dhaka, Bangladesh
- **Instructor** September 2023 - August 2023  
UIU App Forum [\[Profile\]](#)  
- Provide Grooming sessions on Advanced OOP lab, DBMS lab, System Design lab, Software Engineering lab, and Final Year Design Project  
Dhaka, Bangladesh
- **Grader** November 2022 - January 2024  
United International University  
- Assisted the course instructor with various tasks.  
- Evaluated and graded assignments.  
- Provided feedback and guidance to students.  
- Supported administrative tasks related to the course.  
Dhaka, Bangladesh
- **Digital Content Creator** February 2022 - Present  
YouTube [\[Link\]](#)  
- Created and published a series of tutorials on computer architecture and database management

systems (DBMS) and the theory of computation.

- Produced and published engaging vlog videos on various topics related to seminars, CSE project exhibitions, travel and entertainment.

- Managed the entire content creation process, from planning and scripting to filming, editing, and uploading, resulting in 38000+ views, and 359 subscribers.

Dhaka, Bangladesh

## Research Experience

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### Enhancing Malware Detection through Convolutional Neural Networks and Explainable AI

- Submitted in [IEEE TENSYP](#), 2024
- **Collaborators:** Most Marufatul Jannat Mim, Naznin Akter Nela, Tonny Rani Das, [Dr. Mohammad Shahriar Rahman](#), and [Mr. Mir Moynuddin Ahmed Shibly](#)
- **Description:** In this research we used Convolutional Neural Networks (CNNs) with Explainable AI techniques like Grad-CAM and LIME to enhance malware detection. By leveraging these methodologies, we aim to improve both the accuracy and interpretability of malware detection systems, contributing to more robust cybersecurity measures.

### CNN-Based Lung Tumor Segmentation Enhanced by Explainable AI

- Project in progress
- **Collaborators:** Most Marufatul Jannat Mim, Ripon Kumar Debnath, [Dr. Riasat Azim](#)
- **Description:** In our research paper, we're focusing on finding lung tumors in medical images. We're using a technology called Convolutional Neural Networks (CNNs) to do this job. But we're also making it easier to understand how the computer finds these tumors by using a type of AI called Explainable AI. This makes the process more accurate and helps doctors better understand the results, which can improve patient care.

### BCNet-11: A dilated convolutional neural network for breast cancer classification using histopathology images

- Submitted in [2nd International Conference on Big Data, IoT and Machine Learning](#), 2023
- **Collaborators:** Sadman Sakib, Aren Ittesafun Abian, Most Marufatul Jannat Mim, Ripon Kumar Debnath, Azizul Hakim Zen, [Md. Rayhan Ahmed](#)

## Technical Skills

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- **Packages:** Scikit-learn, Numpy, Pandas, Matplotlib, Opencv, Tensorflow etc.
- **Programming:** Python, C/C++, Java, PHP
- **Database & Tools:** MYSQL
- **Scripting:** LATEX, HTML, CSS, JavaScript, bash, shell
- **Project Management Tools:** Jira, Notion
- **Data Reporting Tools:** Microsoft Power BI, Tableau
- **Design Tools:** Adobe Illustrator, Adobe Photoshop, Figma, Canva, Draw.io
- **Hardware Tools:** Atmega32 Microcontroller
- **Miscellaneous:** MS Word, Powerpoint, Excel

## Selected Project

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### Bus Shuttle

UIU Bus Shuttle is a Java-based website enabling seamless tracking of university shuttles, displaying their current location and available seat occupancy. Users can book or cancel seats effortlessly, all presented with a user-friendly CSS interface. **Programming Language:** Java. [\[GitHub Repo\]](#).

### Car Solution

Car Solution is a dynamic website offering a range of automotive services including car wash and car rental, implemented using PHP, CSS, and JavaScript for seamless functionality and user interaction. .

**Programming Language:** PHP, JavaScript. [\[GitHub Repo\]](#).

### Job Seekers

Job Seekers serves as a centralized platform, bringing together both job seekers and recruiters, offering a seamless space for employment opportunities, all powered by CSS, PHP, and JavaScript. **Programming Language:** PHP, JavaScript. [\[GitHub Repo\]](#).

## Achievements and Awards

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- **University Scholarship**  
3 times 25%, 2 times 50%, and 1 times 100% scholarship.
- **1st Runner Up**  
Final Year Design Project-1, CSE Project Show, UIU, Summer 2023
- **Runner Up**  
Table Tennis Female Singles, UIU Intra Indoor Games 2023
- **Champion**  
Table Tennis Female Singles, UIU Intra Indoor Games 2022

## Leadership Experience

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- **President**, UIU App Forum, Dhaka (March, 2023 - Present)
- **Vice President**, UIU App Forum, Dhaka (August, 2022- March, 2023)
- **Head of Public Relations**, UIU App Forum, Dhaka (June, 2021- August, 2022)