

Anannaya, Sanjida Jannat

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Jannat Anannaya —

RESEARCH INTERESTS

Artificial Intelligence, Machine Learning, Deep Learning, Human-Computer Interaction (HCI), Software Engineering etc.

EDUCATION

United International University, Dhaka, Bangladesh Jan 2020 — Feb 2025
BSC. in Computer Science and Engineering (**Major**: Data Science) Cumulative GPA: 3.71/4.00

EXPERIENCE

Research Assistant United International University March 2025 - Present

- Developed a hybrid deep learning pipeline utilizing quantum computing.
- Implemented advanced methods, enhancing model reliability across diverse test scenarios.
- Conducted detailed analysis on feature representations, CBAM tuning.
- Collaborated on experimental design.
- Contributed in documentation, literature review and paper preparation for publication.

Undergraduate Teaching Assistant (UGA) United International University 2024 - Feb 2025

- Managed to facilitate course content and materials with the lab faculty.
- Checked and evaluated assessments, and judged lab projects.
- Courses supervised: Programming in C++, Object-Oriented Programming, and, Data Structure Algorithm.

Research Projects

Bagging-Based Ensemble Learning Framework for Multiclass Pox Skin Lesion Detection Using ML and CNN Pretrained Models

July 2024 — Oct 2024

Status: Accepted at ICCIT 2024 [Working for Journal]

Contributions: Worked with various Deep Learning Models, Content Writing

Leveraging CodeBERT for Automated Detection of Web Vulnerabilities, SQL Injections, and Malicious PDFs: A Transformer-Based Approach for Enhanced Cybersecurity

July 2024 — Feb 2025

Status: In-Review (Array, Elsevier)

Contributions: Literature Review, Content Writing

"Can I enjoy my hobbies like before?" A Look into Randomized To-Do App for Improving Hobby Engagement and Well-being

Dec 2024 — Jan 2025

Status: Submitted to CHI LBW, 2025

Contributions: Literature Reviewing, Content Writing, UI Wireframing, Interviewing

Advanced Predictive Analytics for Healthcare: Enhancing Patient Outcomes Through EHR-Based Modeling

Nov 2024 — N/A

Status: In-Progress

Contributions: Tabular ML Model Run, Literature Review, Result Analysis

PUBLICATIONS

ElectroSortNet: A Novel CNN Approach for E-Waste Classification and IoT-Driven Separation System.

Nov 2023 — Feb 2024

Status: Published — [Link to the Paper](#)

Contributions: Literature Review, Content Writing

Mentionable Courses

Bachelor's Courses

- Machine Learning
- Digital Image Processing
- Data Mining
- Human-Computer Interaction
- Software Architecture
- Web Programming

AWARDS

Smart Prison (Electronics Lab Project)

UIU CSE Project Show 2023

1st Runner-up

PrintKoro (System Analysis and Design Lab Project)

UIU CSE Project Show 2023

2nd Runner-up

SKILLS

- **Programming:** C, C++, Java, Python, HTML, JS, CSS
- **Software:** Google Workplace(Docs, Sheets, Forms), VS Code, IntelliJ, Google Colab, Kaggle, etc.
- **Soft Skills:** Content Writing, Paper Skimming, Literature Searching, Overleaf Formatting, Survey & Interview Analysis (Thematic Analysis), etc.

REFERENCES

1. Prof. Dr. Mohammad Nurul Huda

Head of Dept, Computer Science and Engineering, United International University

E-mail: mnh@cse.uiu.ac.bd

Scholar Profiles: United International University - Faculty Profile

2. Prof. Dr. Mohammad Motaharul Islam

Director, MSCSE Program, United International University

E-mail: motaharul@cse.uiu.ac.bd

Scholar Profiles: United International University - Faculty Profile