

## MD Nur Islam

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## RESEARCH INTERESTS

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Multimodal Deep Learning - Natural Language Processing - Expandable AI - Machine Learning

## EDUCATION

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**United International University**, Dhaka, Bangladesh 2020 — 2024  
Bachelor of Science in Computer Science and Engineering (**Major**: Data Science) CGPA: 3.80/4.00  
Distinction: Magna Cum Laude Major CGPA: 4.00/4.00  
Thesis Supervisor: Prof. [Dr. Swakkhar Shatabda](#)

## EXPERIENCE

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**Project Manager** Sep 2024 — Present  
Merlin Group

- Led end-to-end project management for multiple cross-functional initiatives, ensuring timely delivery within scope and budget, resulting in a 15% improvement in project completion rates.
- Coordinated with stakeholders across finance, operations, and IT to define project requirements, milestones, and success metrics, aligning deliverables with business objectives.
- Implemented Agile and Scrum methodologies to enhance team productivity, reducing project delays by 20% through improved sprint planning and risk mitigation strategies.
- Developed comprehensive project documentation, including charters, roadmaps, and risk registers, improving transparency and communication with senior leadership.

**Undergraduate Assistant** Oct 2022 — Aug 2024  
United International University

- Designed and implemented comprehensive course materials including assignments, quizzes, and laboratory exercises across multiple core computer science courses.
- Provided hands-on instruction and mentoring to undergraduate students in fundamental programming concepts, data structures, digital logic design, and microprocessor architecture.
- **Courses supervised:** Introduction to Computer Systems, Structured Programming Language Laboratory, Object Oriented Programming Laboratory, Data Structure and Algorithms I Laboratory, Data Structure and Algorithms II Laboratory, Digital Logic Design Laboratory, Electronics Laboratory.

## PUBLICATIONS

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### Journals

- Islam, S. M., Mustakim, S. H., Hossain, M., Mashira, M., **Shourav, N. I.**, Ahmed, M. R., Islam, S., Islam, A. K. M., & Shatabda, S. “An audio video-based multi-modal fusion approach for speech emotion recognition.”, **Knowledge-Based Systems (Elsevier)**, Q1, I.F 7.6, 2026. DOI: [10.1016/j.knosys.2026.115762](https://doi.org/10.1016/j.knosys.2026.115762)

### Conference papers

- Emam Hasan, Hridoy Das, **Nur Islam Shourav**, Ramisa Hossain, Mohammad Shahriar Rahman and Mir Moynuddin Ahmed Shibly. 2024. ThreatScan-Strengthening Website Security with Predictive Analytics Using Machine Learning Model. (TENSYPMP). DOI: [10.1109/TENSYPMP61132.2024.10752190](https://doi.org/10.1109/TENSYPMP61132.2024.10752190)

## ACHIEVEMENTS

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**Academic Excellence Scholarship** Dhaka, Bangladesh  
Academic scholarship award received 9 trimesters from United International University 2021 — 2024

**Champion, Advanced Object Oriented Programming Lab** Dhaka, Bangladesh  
Awarded the Champion of the UIU CSE Project Show Fall'21 June 2022  
project name: Online Shop Management

**2<sup>nd</sup> Runner up, Database Management Systems Lab** Dhaka, Bangladesh  
Awarded the 2nd runner up of the UIU CSE Project Show Sum'22 November 2021  
Project Name: YouthOpp

## RESEARCH EXPERIENCE

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### An audio video-based multi-modal fusion approach for speech emotion recognition.

- **Co-supervised by:** [Md. Rayhan Ahmed](#), Assistant Professor (on study leave), Dept. of CSE, UIU & PhD Student at the University of British Columbia, [Dr. Salekul Islam](#), [Dr. Swakkhar Shatabda](#), [Dr. A.K.M Muzahidul Islam](#), Professor, Dept. of CSE, UIU.
- Under Review at Knowledge-Based Systems (Elsevier) [[codebase](#)].
- We present an approach to classify human emotions by fusing audio and visual inputs. Our approach sets new state-of-the-art results while keeping the architecture very simple. Additionally, we present a new frame filtering strategy to overcome the problem of spatiotemporal redundancy.

### AVLoS: Audio-Visual Long Text Scene Summarization

- **Supervised by:** [Dr. Swakkhar Shatabda](#), Professor, Dept. of CSE, UIU.
- In Progress.
- We are experimenting on fine-grained long text scene summarization from videos using video and audio inputs. Most approaches use queries to guide text generation, we are experimenting to generate text without these queries.

### ThreatScan: Strengthening Website Security with Predictive Analytics Using Machine Learning Model

- **Co-supervised by:** [Mir Moynuddin Ahmed Shibly](#), Lecturer, Dept. of CSE, UIU and [Dr. Mohammad Shahriar Rahman](#), Professor, Dept. of CSE & Director, CITS, UIU.
- Accepted [[codebase](#)].
- This paper presents ThreatScan, a machine learning system for predicting website attacks. It uses a 'ScrapingBot' to extract potential threats, which various models analyze. The approach shows high accuracy across multiple datasets, enhancing cybersecurity through predictive analytics.

## PROJECTS

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### Sujog

[\[Github\]](#)

Solving the challenge of providing equal access to opportunities and educational resources for young people regardless of geographic location.

**Tech Stack:** HTML, CSS, JS, PHP, MySQL

**Acknowledgments:** 2<sup>nd</sup> Runner-up Champion at the UIU CSE Project Show, Database Management Systems Laboratory

### Interactive Sales Dashboard

[\[Github\]](#)

A comprehensive Excel-based dashboard designed for in-depth analysis and visualization of bike sales trends across diverse demographics and regions.

**Tech Stack:** Excel

### Data Professional Career Insights

[\[Github\]](#)

A Power BI dashboard providing insights into data professionals' salaries, job roles, and programming language preferences. It highlights key trends in career satisfaction and work-life balance across regions.

**Tech Stack:** Power BI

## SKILLS

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- **Programming & Scripting Languages:** C, C++, CSS, Java, PHP, JavaScript.
- **Data/Business Analysis:** Excel, Power BI, Python.
- **Database:** SQL, MySQL
- **Project Management:** Notion, Git, Jira, ClickUp, Microsoft Project.
- **Machine Learning Frameworks & Libraries:** PyTorch.
- **Design:** Figma, Canva, UML diagram.
- **Development Tools & Frameworks:** React.js, Firebase, React Native.
- **Markup Languages:** HTML, LaTeX.
- **Collaboration Tools:** Git, GitHub.
- **Documentation:** Overleaf, MS Office Suite, MkDocs, SRS.
- **Soft Skills:** Communication, Leadership, Teaching, Design Thinking, Public Speaking, Team Player, Content Design.
- **Miscellaneous:** Microsoft Word, Microsoft PowerPoint, Microsoft Teams.

## REFERENCES

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### [Dr. Suman Ahmmed](#)

Head and Associate Professor, Dept. of CSE  
United International University, Dhaka, Bangladesh  
E-mail: [suman@cse.uiu.ac.bd](mailto:suman@cse.uiu.ac.bd)

### [Prof. Dr. Swakkhar Shatabda](#)

Professor of Computer Science and Engineering  
Brac University, Dhaka, Bangladesh  
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