

Koushiki Devi Agarwalla

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Academic Accreditation

Degree	Major	Institution	Year	Grade
M.Sc	ICT	Jahangirnagar University	March 2025 - - Present	4.00/4.00 (1st Sem)
B.Sc	ICT	Jahangirnagar University	Exam Year : 2023 Result Year: 2025	3.62/4.00
HSC	Science	Govt. Saroda Sundori Mohila College, Faridpur	2019	4.50/5.00
SSC	Science	Faridpur Govt. Girls' High School, Faridpur	2017	5.00/5.00

Teaching Experience

- **Teaching Assistant**, Software Engineering Lab *IIT, Jahangirnagar University* (2/12/2025–Present)
- **Teaching Assistant**, Algorithm Analysis Lab *IIT, Jahangirnagar University* (7/10/2025–13/01/2026)

Research Work

- **MSc Thesis Title : Soulsync — Ensemble-Based NLP Meta-Learners in a Chatbot Framework for Automated Depression Detection and Digital Mental Health Support** (Ongoing)
Developing a chatbot integrating an ensemble-based meta learner with NLP models for early depression detection and mental health support.
- **BSc Thesis Title : AutenNet — A Deep Learning-Based Ensemble Approach for ASD Student Involvement Detection** (Jan 2024–Feb 2025)
Collected classroom video data and built a custom dataset to classify different stages of involvement among ASD students. Designed and implemented an ensemble CNN approach to detect and analyze engagement levels.

Key Projects

- **Flower Color Predictor Using Resnet50 (2025)** - Developed a flower color prediction website using machine learning to accurately classify flower colors based on input features. [view project](#)
- **Virtual Classroom Platform ZoomUp(2024)-** Developed a virtual classroom platform with a Zoom-Style interface for real-time video conferencing, interactive learning, and collaboration. [view project](#)
- **Soccer Agency Website (2024)** - Built a soccer agency website to manage player profiles, showcase teams, and facilitate communication between players, agents, and clubs. [view project](#)
- **Audio Analysis System (2023)** - Implemented Audio Identifier and Analysis system using MATLAB for audio data processing and analysis.
- **E-Commerce Product Size Identifier (2022)** -Built using React, featuring an e-commerce product size identification system to enhance the user shopping experience and improve accuracy in selecting the right size.[view project](#)
- **Portfolio**-Visit my [portfolio](#) for more details on my projects and work.

Professional Activities

- Treasurer, IEEE-WIE, Jahangirnagar University (Present)

Technical Skills

- **Programming Languages:** C/C++, Python
- **Frameworks:** ReactJS, NodeJS, Flask, TensorFlow, Keras, PyTorch
- **Web Technologies:** HTML, CSS, JavaScript
- **Tools:** Microsoft Office, Anaconda, Visual Studio Code, LaTeX, Google Colab, Canva, Adobe Illustrator
- **Database:** MySQL, MongoDB
- **Operating Systems:** Windows, Linux
- **Cybersecurity Skills:** Firewall and IDS/IPS Management, Cyber Threats and Vulnerability Assessment, Penetration Testing, Digital Forensics Basics.
- **Soft Skills:** Research, Data Collection and Preprocessing, Technical Writing, Communication Skills, Problem Solving, Networking.

Achievements

- **NST Fellowship MSc 2025-2026 (Physical Science)** (2026)
- **1st position in ML and IoT Quiz Competition** (2024)
- **Certificate in Cyber Security**, EDGE Bangladesh (2024)
- **1st Year Merit Scholarship**, IIT-JU (2023) ,**2nd Year Merit Scholarship**, IIT-JU (2024) ,**3rd Year Merit Scholarship**, IIT-JU (2025)
- **4th position in Cyber Hackathon**, Cyber Security Society, JU (2022)
- **Certificate in Web Development**, Digital IT Institute, Dhaka (2021)
- **1st position in Science Project** held by ProthomAlo, Dhaka Division (2015).

Language Proficiency

- **Bangla:** Native proficiency
- **English:** Professional working proficiency

Hobbies & Interests

- Playing badminton and cricket
- Reading books (fiction, technology, psychology)
- Watching movies and documentaries
- Listening to music
- Traveling and exploring cultural heritage

References

Dr. Md. Sazzadur Rahman
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