

# Koushiki Devi Agarwalla

Institute of Information Technology (Jahangirnagar University)  
Savar, Dhaka-1342, Bangladesh

☎ +8801742-364333 ✉ koushikiagarwal24@gmail.com  
🌐 github.com/KoushikiAgarwal 🌐 www.koushikiportfolio.com

## Education

- **B.Sc in Information Technology**, Jahangirnagar University (2020–2025) CGPA: 3.62/4.00
- **H.S.C in Science**, Govt. Saroda Sundori Mohila College, Faridpur (2019) GPA: 4.5/5.00
- **S.S.C in Science**, Faridpur Govt. Girls High School, Faridpur (2017) GPA: 5/5

## Technical Skills

- **Programming Languages:** C, Python, JavaScript
- **Frameworks:** ReactJS, NodeJS, Flask, TensorFlow, Keras, PyTorch
- **Web Technologies:** HTML, CSS
- **Tools:** Microsoft Excel, 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.

## Key Projects

- **Flower Color Predictor Using Resnet50 (2025)**  
A deep learning model to predict flower colors based on image classification. - [view project](#)
- **Virtual Classroom Platform ZoomUp(2024)-**  
Developed a platform for creating virtual classrooms with enhanced collaboration features. [view project](#)
- **Soccer Agency Website (2024)**  
A web-based platform for managing soccer player data and contracts. [view project](#)
- **Audio Analysis System (2023)**  
Built in MATLAB for audio identification and analysis, focusing on pattern recognition.
- **Water Level Monitoring (2022)**  
A sensor-based system for real-time water level monitoring with data visualization.
- **E-Commerce Product Size Identifier (2022)**  
An application that automatically detects product sizes from images on e-commerce websites. [view project](#)
- **Portfolio**  
Visit my portfolio for more details on my projects and work.

## Research Work

**Thesis (Jan 2024–Present):** **Collected** video data and built a custom dataset to classify different stages of classroom involvement among ASD students. Developed a deep learning-based multimodal ensemble approach to detect and analyze levels of student involvement.

## Professional Activities

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

## Achievements

- **1st position in ML and IoT Quiz Competition (2024)**
- **Certificate in Cyber Security**, EDGE Bangladesh (2024)
- **1st Year Merit Stipend**, IIT-JU (2023) ,**2nd Year Merit Stipend**, IIT-JU (2024) ,**3rd Year Merit Stipend**, IIT-JU (2025)
- **4th position in Cyber Hackathon**, Cyber Security Society, JU (2022)
- **Certificate in Web Development**, Digital IT Institute, Dhaka (2021)