

Mosammat Mariya

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Summary

I am a Python developer and designer with strong skills in data analytics, algorithms, and visual design. I am currently studying for my Master's in Computer Science, building on my background in software and data solutions. I have experience in project coordination, data management, and community engagement. As an Assistant Project Leader in the "Guardians of Dhaka" project, I worked with international teams to raise awareness about waste management. I enjoy combining creativity and technology to build practical, data-driven, and visually engaging solutions, while continually exploring cloud systems and visual analytics.

Area of Expertise

- Data Analytics & Visualization
 - Project Management Community Engagement
 - Team Leadership & Coordination
 - Training & Development
 - Inventory & Resource Management
 - Design & Communication
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Key Achievements

- Led successful community engagement programs on litter awareness and sustainability, impacting three schools.
 - Managed inventory and organized training sessions to enhance productivity at Probha Aurora.
 - Achieved a "Very Good" performance rating during a four-month virtual internship in data analytics.
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Work Experience

Fellow

Probha Aurora, Dhaka, Bangladesh

November 2024 – May 2025

- Managed inventory to ensure efficient stock control and availability.
- Facilitated team meetings and organized training sessions to enhance productivity.
- Designed posters and presentations to communicate effectively with stakeholders.

Virtual Intern – Data Analytics

vInternship.org (Supported by ICT Division, Govt. of Bangladesh)

Provided by MySoft Limited & eSRD-Lab, Dept. of CSE, BUET

September 2023 – December 2023

- Completed a four-month internship focused on data analytics and data visualization.
 - Gained hands-on experience with Python, SQL, Angular, Flask, and tools like Pandas and Matplotlib.
 - Received a performance rating of "Very Good" based on strong technical and soft skills.
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Education

Master of Computer Science

The University of Sydney

February 2026 - ongoing

Bachelor of Science in Computer Science and Engineering (BSCSE)

North South University, Dhaka, Bangladesh

Graduation Year: 2025

Skills

Technical Skills:

- **Programming Languages:** Python, SQL
- **Frameworks & Tools:** Angular, Flask, PyCharm, WebStorm
- **Libraries & Technologies:** Pandas, Matplotlib, Big Data
- **Data Analytics & Visualization:** Proficient in analyzing and visualizing data to extract actionable insights.

Project Management & Leadership:

- Strong ability to lead projects from initiation to completion, ensuring alignment with goals and deadlines.
- Skilled in organizing and facilitating team meetings, as well as training sessions for professional development.

Community Engagement & Facilitation:

- Experience working with communities to promote awareness on various topics, including sustainability and waste management.
- Expertise in collaborating with international teams to achieve shared objectives.

Soft Skills:

- Strong communication, problem-solving, and organizational skills.
 - Highly punctual and adaptable to various work environments.
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Projects

Guardians of Dhaka: Litter Awareness and Workshop

Collaborated with KOICA Volunteers and DNCC Waste Management Experts

January 2025 – March 2025

Role: Community Facilitator and Assistant Project Leader

- Led community engagement and awareness programs on litter management and sustainable waste practices.

- Coordinated project activities with three schools and DNCC experts.
- Collaborated with three KOICA volunteers to promote eco-friendly waste management practices.

From Words to Visuals: Generating Video Tutorials from Textual Search/Query

- Developed an AI-driven system that transforms text-based queries into engaging video tutorials using NLP, Computer Vision, and Audio Synthesis.
- Automated the video creation process by integrating natural narration, image retrieval, and content generation for improved accessibility and scalability.
- Introduced an innovative approach to digital education, enhancing efficiency and knowledge sharing through multimedia automation.

Multimodal Sarcasm Detection Using Facial Expression, Voice Expression, and Dialogue

- Built a multimodal sarcasm detection system combining audio, text, and video signals to identify sarcasm in conversations.
- Implemented YAMNet for voice analysis, DistilBERT for dialogue understanding, and MobileNetV2 for facial expression recognition.
- Achieved 65.2% model accuracy, demonstrating potential applications in social media sentiment analysis and conversational AI.

Languages

- **English:** Fluent (Written & Spoken)
- **Bengali:** Native

References