

Souharda Bhattacharjee

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Profile

Dedicated Data Science and Machine Learning specialist pursuing a Bachelor's degree in Computer Science. Being skilled in analytical problem-solving, technical expertise, and effective teamwork, I bring strong commitment and leadership experience in driving advancements in technology and data-driven applications.

Experience

Computer Vision and Intelligent Systems Research Lab (CVIS - BRACU) Oct 2023 – 2025
Researcher

- Developing Quality Control in the Textile Industry using advanced Machine Vision techniques.
- Working and developing Computer Vision techniques on various types of Machine Learning methods.

Extra Curricular Activities

BRAC University Computer Club (BUCC) 2023 – 2024
Director, Communication & Marketing

- Led the Marketing Team, managing sponsorships, corporate affiliations, and budgeting for events.

Hult Prize at BRAC University 2023 – 2024
Head of Judge Management

- Coordinated competitions and events by designing judging processes and overseeing teams.
- Ensured smooth, efficient experiences for participants and judges.

Education

Bachelor of Science: Computer Science 2021 – 2025
BRAC University, Dhaka

Key Coursework: Data Structures & Algorithms, Software Engineering, Database Systems, Artificial Intelligence, Neural Networks, Data Science, Machine Vision, Business & Human Communication

Projects

Fabric Defect Detection System
Thesis Project

- Created a dataset of 7,000+ textile images for defect detection.
- Manually annotated class-specific defects ensuring precision and consistency.
- Developed a YOLOv8-inspired CNN for real-time fabric defect detection.

Other Projects
Personal Projects

- **University Student Management System:** Core course-to-finance management system for smooth student lifecycle.
- **Leather Quality Assessment:** Applied ML and vision models for surface defect classification.
- **Vehicle-Fuel-Consumption:** Analyzed performance, fuel efficiency, and emissions using regression models.
- **Mice Protein Expression:** ML analysis of biomarkers (UCI dataset) using PCA and classification.

Technical Skills

Frontend Development: HTML, CSS

Programming Languages: Python, JavaScript, SQL, C/C++

Methodologies & Frameworks: Agile, SCRUM

Python Frameworks: Flask, FastAPI

Design Tools: Adobe Photoshop, Figma

Full-Stack Frameworks: MERN (MongoDB, Express, React, Node.js)

Professional Skills

Soft Skills: Communication, Team Collaboration, Mentorship, Corporate Deal

Analytical Abilities: Critical Thinking, Adaptability, Creative Problem Solving, Analytical Thinking

Technical Tools: MS Office Suite, Power BI, n8n, Zapier

Certificate

MLOps Fundamentals – DataCamp

Completed on September 4, 2025 (14 hours). Covered CI/CD pipelines, model deployment, monitoring, and reproducibility best practices in MLOps.

Languages

Bangla	English	French	Chinese
Native	Proficient	Beginner	Beginner