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

Languages & Scripting: Python, JavaScript, SQL, C/C++
Frontend Development: React, Tailwind CSS, Next.js, HTML, CSS
Machine Learning Frameworks: PyTorch, Scikit-learn, TensorFlow, OpenCV
Backend & APIs: Node.js, Express, Flask, REST, FastAPI
Database & ORM: PostgreSQL, MySQL, MongoDB
Cloud & DevOps: Vercel, Firebase, CI/CD
Tools: Git, VS Code, Tableau, Power BI, Excel
Other: n8n, Zapier, Email HTML/MJML, Figma

Professional Skills

Soft Skills: Communication, Team Collaboration, Mentorship, Corporate Deal
Analytical Abilities: Critical Thinking, Adaptability, Creative Problem Solving, Analytical Thinking

Certificate

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