Md. Ferdous Mondol

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PROFESSIONAL SUMMARY

A passionate and dedicated fourth-year Computer Science and Engineering student at the University of Dhaka. Strong interest in **Machine Learning, Deep Learning, and Full-Stack Development**. Skilled in developing real-world applications with modern web technologies and experienced in data-driven problem-solving. Actively seeking opportunities to apply my knowledge through internships or collaborative projects.

SKILLS

- **Languages:** JavaScript, TypeScript, C, C++, Python, Java, Kotlin
- **Backend:** Node.js, Nest.js, FastAPI, REST APIs.
- **Frontend:** React, Angular, Redux Toolkit, Context, HTML, CSS, TailwindCSS
- **Frameworks/Libraries:** MERN Stack, PyTorch, Scikit-learn, Pandas
- **Databases:** MongoDB, SQL
- **Tools:** Git, GitHub, Docker, Hugging Face.
- **Operating Systems:** Linux, Windows
- **Other Skills:** Numerical Method, Calculus, Linear Algebra, Data Analysis, Networking, Data Structure, Statistic and Algorithm

EDUCATION

B.Sc. in Computer Science and Engineering **2021 – Present, End-2025 December**
University of Dhaka Dhaka, Bangladesh
Currently 4th Year, 2nd Semester

EXPERIENCE

Full-stack Web Development Intern **2025 – present**
SoftLab IT, Dhaka, Bangladesh

- Developed full-stack web applications using modern technologies.
- Collaborated with team members on feature design and implementation.
- Improved problem-solving and debugging skills through real-world projects.

Math Teacher (Part-Time) **2022 – present**
Udvash, Dhaka, Bangladesh

- Taught advanced mathematics to high school and college-level students.
- Enhanced communication and leadership skills through interactive teaching.

PROJECTS

Doctor Appointment System (Ongoing)
doctor-appointment

- A full-stack medical appointment booking system.
- Integrating **ML models** to predict patient no-shows and optimize scheduling.
- Built with React, FastApi, and MongoDB.

Failure Academy (Educational Platform)
failure-academy

- Online education platform where students can purchase courses, access PDFs, and track progress.
- Implemented teacher dashboards to manage courses and view revenue.
- Built using React, Redux Toolkit, Node.js, and MongoDB.

Online Shoe Shop
online-shoe-shop

- A modern e-commerce platform for selling shoes with a responsive UI.
- Integrated payment gateway and cart management.

Electrofix (Electronics E-commerce)
Electrofix

- Developed a full-stack e-commerce platform for electronic products.
- Focused on seamless user experience and clean UI using React and TailwindCSS.

Online Food Selling Website
online-food-selling

- Built a complete food ordering and management system.

MACHINE LEARNING PROJECTS

Machine Learning Projects Repository

- **Car Price Prediction** – Regression model to predict car prices. (Repo)
- **Customer Churn** – Classification model for bank churn analysis. (Repo)
- **Spam Detection** – NLP-based SMS spam filtering. (Repo)
- **Fashion Recommender System** – Product-based recommendation system. (Repo)
- **Graduate Admission Prediction** – Predict graduate admission chances. (Repo)
- **Hand-Written Digit Classification** – CNN-based deep learning model. (Repo)
- **Housing Price Prediction** – Regression model for house prices. (Repo)
- **WhatsApp Chat Analysis** – NLP analysis of chat datasets. (Repo)
- **Kaggle Binary Classification on Bank** – Binary classification ML project. (Repo)

CURRENT RESEARCH

- Currently researching on **Device-to-Device Power Optimization** to improve energy efficiency and optimize

resource allocation in distributed systems.
- Exploring techniques that combine **Machine Learning** with optimization algorithms for adaptive and scalable solutions.

RESEARCH INTERESTS

- Machine Learning and Deep Learning
- Cloud Computing Resource Optimization
- Blockchain-Based Decentralized Systems

DESIRED INTERNSHIP

Seeking a challenging internship opportunity in **Machine Learning** to apply academic knowledge and project experience to solve real-world problems.