Obidur Rahman

Software Developer & Machine Learning Engineer

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Technical Skills

Languages & Frameworks	Python, C++, JavaScript, React, Next.js, Firebase, ML (scikit-learn, Pandas, NumPy), MATLAB, Git

Technical Projects

Environmental Determinants of Diarrheal Disease — Live Demo — GitHub
- Analyzed disease trends across 5 divisions in Bangladesh with time series decomposition and seasonal trend analysis
- Implemented ensemble models (Random Forest, SVR, Gradient Boosting) to forecast diseases
- Developed interactive web dashboard with real-time visualization
- **Technologies:** Python, scikit-learn, Pandas, NumPy, Matplotlib, Plotly

IMDB Sentiment Analysis — Live Demo — GitHub
- Applied NLP techniques for text preprocessing and feature extraction.
- Built an interactive web interface using Streamlit for real-time sentiment analysis.
- **Technologies:** Python, scikit-learn, NLTK, Streamlit.

Matlab Hero — Live Demo — GitHub
- Developed an educational platform for MATLAB with a responsive UI and modern features
- **Technologies:** Next.js, React, JavaScript, Nextra.

Education

2023–2027	**Bachelor of Science in Mathematics**, *University of Chittagong*, Bangladesh

Relevant Coursework:
- Linear Algebra, Calculus I & II, Discrete Mathematics, Statistics I & II

Professional Training

Aug 2024	**Software Engineering Fellowship**, *Headstarter AI*

- Led a team of 4 for the development of 5 full-stack applications
- Created "Rate My Professor" platform and AI-integrated customer support system
- Created full-stack Inventory Management application and a Full Stack Flashcard app
- **Technologies:** Next.js, FastAPI, Firebase, React

Miscellaneous

Leadership	**Research and Development Secretary**, *Chittagong University Math Club*

- Lead Python programming sessions and create educational Math / Programming content.

Community Lead, *The Code Forum*
- Founded 100+ member programming community; organized learning sessions and tutorials

Achievements	**Digital Innovation Fair 2020**, *First Place*

- Created a Software-based Drug Addiction Recovery System

Content Creation	**Mathematics & Programming Educator**

- Create educational content on YouTube and write technical blogs on Hashnode