Obidur Rahman

Software Developer & Machine Learning Engineer

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Technical Skills

Core Skills	Python, C++, JavaScript, Machine Learning, Data Analysis, React.js, Next.js, Firebase
Libraries	scikit-learn, Pandas, NumPy, Plotly, Seaborn, MATLAB, Git

Education

2023–2027 — **Bachelor of Science in Mathematics**, *University of Chittagong*, Bangladesh
Relevant Coursework:
- **Mathematics:** Linear Algebra, Calculus I & II, Discrete Mathematics, Statistics I & II
- **Computing:** Programming Fundamentals, Data Structures, Algorithm Analysis

Technical Projects

Diarrhea Prediction Model
- Analyzed correlation between environmental factors and diarrhea cases across 5 regions
- Implemented predictive models using Random Forest, SVR, and Gradient Boosting
- Technologies: Python, scikit-learn, Pandas, NumPy, Plotly

IMDB Sentiment Analysis
- Implemented text preprocessing and feature extraction using NLP techniques
- Developed interactive web interface using Streamlit for real-time predictions
- Technologies: Python, scikit-learn, NLTK, Streamlit

Matlab Hero
- Designed and developed an educational platform for MATLAB programming practice
- Built responsive UI with modern features using Next.js and Nextra
- Technologies: Next.js, React, JavaScript, Nextra

Professional Training

Aug 2024 — **Software Engineering Fellowship**, *Headstarter AI*
- Developed "Rate My Professor" platform frontend using FastAPI and Next.js
- Built AI-integrated customer support system with modern UI/UX
- Created full-stack applications with Firebase integration
- Technologies: Next.js, FastAPI, Firebase, React

Leadership

2023–Present — **Research and Development Secretary**, *Chittagong University Math Club*
- Lead Python programming sessions focusing on algorithms and data analysis
- Create educational content combining Mathematics and Programming

Community Lead, *The Code Forum*
- Founded and manage technical community focused on programming and technology
- Organize peer learning sessions and coding challenges

Relevant Certifications

- Python for Data Science, AI & Development (IBM)
- Developing AI Applications with Python and Flask (IBM)