

Obidur Rahman

Education

- 2023–2027 **BSc in Mathematics**, *University of Chittagong*, Bangladesh
- Relevant Coursework: Advanced Calculus, Linear Algebra, Statistical Learning
 - Research Focus: Applications of Machine Learning in Mathematical Modeling

Skills

- Languages Python, C++, JavaScript, MATLAB
- Technologies Git, scikit-learn, Pandas, NumPy, NLTK, Matplotlib, Firebase

Professional Experience

- Aug 2024 **Software Engineering Fellow**, *Headstarter AI*, Remote
- Spearheaded development of 5 full-stack applications, achieving 100% on-time delivery
 - Led team of 4, conducting daily meetings and maintaining project documentation
 - **Technologies:** Next.js, FastAPI, Firebase, Python

Technical Projects

Environmental Determinants of Diarrheal Disease — [Live Demo](#) — [GitHub](#)

- Engineered ML model achieving 60% accuracy in predicting disease patterns from data
- Implemented time series analysis across 4 major divisions, processing 3000+ data points
- Designed interactive dashboard with 5+ visualization types
- **Technologies:** Python, scikit-learn, Pandas, NumPy, Matplotlib, Plotly

Fish — [GitHub](#)

- Built lightweight shell client handling 5+ standard Unix commands with 99% reliability
- Achieved 40% lower memory footprint compared to standard shells through optimization
- **Technologies:** C++, Systems Programming, Process Management

IMDB Sentiment Analysis Engine — [Live Demo](#) — [GitHub](#)

- Developed NLP model achieving moderate accuracy on IMDB review dataset of 50,000 entries
- Created responsive web interface with real-time analysis capabilities and visualization dashboard
- **Technologies:** Python, scikit-learn, NLTK, Streamlit, NLP

Leadership & Community Impact

- 2023–Present **Founder & Community Lead**, *The Code Forum*
- Founded and scaled tech community to 100+ active members
 - Created structured learning paths for 5 programming tracks
- 2023–Present **Research & Development Secretary**, *Chittagong University Math Club*
- Lead weekly Python programming sessions for 100+ students
 - Wrote 20+ articles bridging theoretical concepts with coding implementations

Awards

- 2018 **First Place**, *Digital Innovation Fair, District Level Competition*
- Presented innovative Drug Addiction Recovery System selected among 100+ projects
 - Featured in national newspaper for impactful and innovative solution to a crisis