

Obidur Rahman

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EDUCATION

University of Chittagong <i>Bachelor of Science in Mathematics</i>	Chittagong, Bangladesh <i>Expected Dec 2026</i>
<ul style="list-style-type: none">Relevant Coursework: Complex Analysis, Numerical Analysis, Differential Equation, Vector & Tensor Analysis, Linear Programming, Linear Algebra, Calculus, Real Analysis, Geometry and Mathematical Programming	

PROJECTS

Comparative Analysis of Lightweight Vision Models <i>TensorFlow, Keras, Python</i>	2024
<ul style="list-style-type: none">Benchmarked 15 lightweight models achieving 99.56% accuracy with MobileViTV2-050 (1.1M params, 0.2 GFLOPs)Optimized models for edge deployment with comprehensive analysis of accuracy between modelsConducted performance evaluation across accuracy, model size and FLOPs for agricultural applications	
Predicting Undergraduate Admission Outcomes in Bangladesh <i>Python, XGBoost, SHAP, Streamlit</i>	2024
<ul style="list-style-type: none">Developed and deployed ML model achieving 83.87% accuracy and 0.8633 ROC-AUC score for admission predictionImplemented advanced feature engineering and hyperparameter optimization using Optuna and ensemble methodsConducted SHAP analysis to identify key predictors providing actionable insights for stakeholdersBuilt interactive web application using Streamlit for model deployment and real-time predictions	
Environmental Determinants of Diarrheal Disease Prediction <i>Python, SARIMA, Plotly, Streamlit</i>	2024
<ul style="list-style-type: none">Implemented time-series forecasting using SARIMA and ARIMA for environmental health applicationsAchieved best performance with Linear Regression (RMSE: 7.40, MSE: 54.82) using 0-7 day lagged featuresDesigned interactive dashboard with real-time visualizations for public health insights and trend analysis	

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, TypeScript
Machine Learning: TensorFlow, PyTorch, scikit-learn
Tools & Deployment: Git, Streamlit, Firebase, Next.js
Specializations: Computer Vision, Predictive Modeling, Time Series Forecasting, Statistical Analysis

CERTIFICATIONS & AWARDS

First Place, Digital Innovation Fair	2018
<i>Featured in National Newspaper</i>	
<ul style="list-style-type: none">Developed Drug Addiction Recovery System, recognized for innovative approach to social problem-solving	
Software Engineering Fellowship	
<i>Headstarter AI</i>	
<ul style="list-style-type: none">Completed intensive 7-week bootcamp developing 5 full-stack web applications using Firebase, Next.jsLed a team of 4 developers, delivering projects with tight deadlines	

LEADERSHIP & COMMUNITY

Founder & Community Lead, The Code Forum	2023 – Present
<i>100+ Members</i>	
<ul style="list-style-type: none">Built technical community focused on collaborative learning in Python, ML, and software development	
Technical Content Creator	
<i>1000+ Readers</i>	
<ul style="list-style-type: none">Published 13 technical articles on Hashnode covering ML, Python, and data science topicsCreated 10+ educational videos on Machine Learning, Mathematics, and Programming on YouTube	