

SIUM AHAMEED BHUYAN

Machine Learning Enthusiast

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PROFESSIONAL SUMMARY

Statistics undergraduate student with a strong foundation in statistical modeling, machine learning, and deep learning. Passionate about leveraging data-driven techniques to extract meaningful insights and build intelligent solutions. Skilled in developing predictive models with Scikit-Learn, designing neural network architectures with TensorFlow and deploying full-stack AI applications using FastAPI and Streamlit. Proven track record of delivering end-to-end ML projects from data preprocessing and exploratory analysis to model deployment and production monitoring. Committed to continuous learning and applying AI to solve real-world challenges in Bangladesh and beyond.

TECHNICAL SKILLS

Machine Learning & Deep Learning: Scikit-learn, TensorFlow, Keras, PyTorch, NLTK, XGBoost

Data Analysis & Statistics: Pandas, NumPy, SciPy, SQL, Regression, Hypothesis Testing, Probability

Data Visualization: Matplotlib, Seaborn, Plotly, Tableau

Development & Tools: Python, FastAPI, Streamlit, Git, Jupyter, VS Code, Cursor, MS Office

Data Management: Data Cleaning, Normalization, ETL Pipelines, Dataset Curation

FEATURED PROJECTS

StatWise — Automated Statistical Reporting Platform

Created an automated reporting platform for SMEs that accepts Excel/CSV uploads and produces comprehensive analyses including descriptive statistics, trend analysis, forecasting and downloadable PDF reports (Flash + Full).

FastAPI scikit-learn pandas PostgreSQL Tailwind CSS

Heart Disease Prediction — Healthcare Classification App

Developed an end-to-end ML application to predict heart disease risk based on clinical parameters including ECG results, cholesterol levels, and blood pressure. Built a complete data preprocessing pipeline with feature scaling and handled class imbalance.

Python Scikit-learn Pandas Streamlit

Spam SMS Detection — NLP & SMS Classification

Built an automated text classification tool to detect fraudulent messages using NLP techniques including TF-IDF vectorization. Demonstrated proficiency in cleaning and managing unstructured text data with real-world deployment.

Python NLTK Scikit-learn NLP

AgriTech — AI-Powered Agricultural Advisory Platform

Built an AI-powered platform for Bangladeshi farmers featuring a Bengali chatbot, crop recommendation engine, disease detection via image upload, fertilizer calculator, and government subsidy information. Deployed as a full-stack web application.

Node.js AI Tailwind CSS JavaScript

VocabPro — SaaS Vocabulary Learning Platform

Developed a subscription-based SaaS platform delivering 10 daily English vocabulary words with Bengali meanings via WhatsApp and email. Includes AI chatbot with 6 personas, weekly quiz contests, streak tracking, and Stripe payment integration with 15 Tk/month pricing.

FastAPI PostgreSQL WhatsApp API AI Stripe

ADDITIONAL PROJECTS

Exploratory Data Analysis

BD Cricket Analysis, BD Road Accident Analysis, BD Temperature & Rain Analysis, Diwali Sales Analysis, IPL Data Analysis, US Shop Data Analysis, Lego Data Analysis.

Classification & Prediction

Rock and Mine (Sonar) Prediction (85% accuracy), Ad Click Prediction (98% accuracy), Loan Prediction, Energy Consumption Prediction.

EXPERIENCE

Project Manager | Dhaka College Data Analytics Club

May 2024 – Nov 2024

Spearheaded innovative data analytics projects, mentored team members, and drove hands-on learning in machine learning and statistical analysis. Mastered leadership, strategic execution, and cross-functional collaboration while delivering impactful data-driven solutions for campus-wide initiatives.

Committee Member | Volunteer for Bangladesh – Dhaka District

Oct 2024 – Present

Spearhead community events, strategize social initiatives, and mobilize volunteer teams to create meaningful social impact across Dhaka district. Optimized leadership and coordinated diverse projects to drive community transformation.

Management Trainee | Youth School for Social Entrepreneurs (YSSE)

Nov 2024 – July 2025

Forged strategic partnerships, analyzed market trends, and crafted growth strategies for youth entrepreneurship programs. Enhanced expertise in negotiation, innovation, and collaboration while expanding organizational reach across Bangladesh.

Event Coordinator | Bangladesh Mathematics Olympiad

Jan 2024 – Present

Led nationwide mathematics Olympiad events, streamlining logistics for participants across multiple districts and ensuring seamless operations. Partnered with educational institutions to promote mathematical achievement among young students.

EDUCATION

Bachelor of Science in Statistics

Dhaka College, Dhaka | *2022 – Ongoing*

CGPA: 3.25/4.00. Specializing in Machine Learning, Deep Learning, and Exploratory Data Analysis. Bridging theoretical statistics with practical, high-impact technical solutions.

Higher Secondary Certificate (Science)

National College of Education | *2019 – 2021*

GPA: 4.92/5.00. Rigorous academic program honing analytical thinking and problem-solving abilities.

CERTIFICATIONS & ACHIEVEMENTS

- Specialization in Machine Learning — DeepLearning.AI (Coursera)
- Python for Data Science — Kaggle Micro-Course
- Completed 21+ machine learning and data science projects across classification, NLP, and EDA domains
- Published interactive dashboards and notebooks on Kaggle with community engagement

LANGUAGES

English (Professional Working) | Bengali (Native)