

Md. Tawhidur Rahman

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EDUCATION

BRAC University, Merul Badda, Dhaka. (2021 – 2025)

- Bachelor of Science in Computer Science and Engineering: CGPA 3.58.

Dhaka Imperial College, Aftabnagar, Badda, Dhaka. (2018 – 2020)

- HSC: GPA 5.00 (2020), Science

Ali Ahmed High School and College, South Goran, Dhaka. (2010-2018)

- SSC: GPA 4.72 (2018), Science

Projects

Corporate Vitality Insight: NLP-Based Company Analysis

- Developed a system to evaluate company performance using NLP, analyzing financial reports, stock market trends, news articles, and public reviews with BERT and pandas.
- Language: Python (RoBERTa, pandas, LSTM, GRU, KNN, SVM, Random Forest)

Bus Route Chatbot: Your Personalized Assistant for Navigating Dhaka by Bus

- A Retrieval-Augmented Generation (RAG) based chatbot designed to assist users in navigating Dhaka using public bus routes. It provides accurate and context aware responses based on the user's current location and desired destination, including recommended bus services.
- **Language:** Implemented in Python using LangChain, powered by the **LLaMA 3.3 70B Versatile** language model.

Next-Day Rainfall Prediction: Time Series Analysis

- Built a machine learning model to predict next-day rainfall using time-series data (temperature, humidity, wind speed/direction), leveraging scikit-learn and LSTM models for 82% prediction accuracy.
- Language: Python (scikit-learn, TensorFlow)

Housing Price Prediction Model

- Created a regression-based model to predict housing prices based on location, room count, and amenities, using scikit-learn and pandas.
- Language: Python (scikit-learn, pandas)

Pandemic Tweet Sentiment Analysis

- Designed an NLP pipeline to classify Twitter sentiments during the pandemic.
- Language: Python (LSTM, GRU, BERT)

Car Price Prediction System

- Implemented a machine learning model to estimate car prices based on brand, model, year, and specifications, using multiple Machine Learning models in scikit-learn.
- Language: Python (scikit-learn, pandas)

GoNuts: Concert Management System

- Engineered a web application for concert ticketing and management, featuring venue details, ticket purchasing, and merchandise options, built with HTML, CSS, and ExpressJS for seamless user experience.
- Languages: HTML, CSS, JavaScript (ExpressJS)

Imagination: Amusement Park Management Platform

- Developed a comprehensive web platform for amusement park ticketing, enabling individual ride bookings, custom package creation, and admin features for price and ride management, using HTML, CSS, and ExpressJS.
- Languages: HTML, CSS, JavaScript (ExpressJS, NodeJS)

SKILLS AND INTERESTS

Coding Skills: Knowledge in Python (scikit-learn, Pandas, Matplotlib), Javascript (NodeJS, ReactJS, ExpressJS), HTML, CSS (Tailwind), C++.

Languages: Bengali, English, Hindi.

Interests: Teaching, Speaking, Listening to music, Singing, Playing video games, Watching and analyzing movies and TV series.