Tamim Ahmed

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Education

BSc in Electronics and Telecommunication Engineering. (CGPA: 3.48/4.00) 2022-2026
Chittagong University of Engineering and Technology *Raozan, Chittagong*

HSC in Science. (GPA: 5.00/5.00) 2018-2020
Hathazari Government College *Hathazari, Chittagong*

Experience

Brain Station 23 18/052025 – 30/052025
Industrial Trainee *Mohakhali, Dhaka*

- Developed a machine learning-based credit card fraud detection system using Python, scikit-learn, and Streamlit, handling severe class imbalance through undersampling with Random Forest and Gradient Boosting models.
- Implemented an interactive web app for batch transaction predictions via CSV upload, featuring fraud count display and feature importance visualization
- Developed a machine learning based system to predict Uber ride fares in New York City by integrating historical ride data with external factors like US holidays and weather conditions.
- Developed a machine learning workflow using RandomForestClassifier to predict Uber trip generation probability based on location, time, and weather data, integrating SQLite for data storage.

Projects

Fake News Detection using Multimodal Fakeddit Dataset | *Python*, *Transformers*, *TorchVision*, *Scikit-learn*, *Streamlit*.

- Developed a multimodal deep learning model combining BERT for text processing and ResNet50 for image analysis to classify fake news into 6 fine-grained categories, achieved 78% accuracy.
- Deployed an interactive Streamlit web application with real-time prediction and added web-scraping functionality to analyze news directly from URLs.

Credit Card Fraud Detection | *Python*, *pandas*, *numpy*,*matplotlib*, *seaborn*, *scikit-learn*, *streamlit*,*joblib*.

- Developed a machine learning system to detect fraudulent credit card transactions on a highly imbalanced dataset (0.17% fraud), achieving AUC 0.90–0.95 using Random Forest and Gradient Boosting models with undersampling.
- Built and deployed an interactive Streamlit web app for batch prediction via CSV upload, featuring fraud count summary and feature importance visualization to enhance usability and interpretability.

TypeSpeed | *JavaScript (ES6+)*, *Chart.js*, *PeerJS*, *HTML5*, *CSS3*, *LocalStorage*

- Developed a real-time typing application featuring P2P multiplayer racing via PeerJS and unique word generation logic to enhance user proficiency.
- Integrated dynamic data visualization using Chart.js to track WPM stability and implemented a persistent daily streak system using LocalStorage.

FormatSwitcher | *JavaScript (ES6+)*, *Chrome API (Manifest V3)*, *HTML5 Canvas*, *File System Access API*

- A Manifest V3 extension utilizing Offscreen Documents and Canvas API to perform client-side image re-encoding, proportional resizing, and quality compression.
- Optimized image processing workflows with custom aspect-ratio algorithms and lossy compression sliders, ensuring high-quality output with reduced file sizes.

Achievements

Scholarship: Technical Scholarship upto 6th semester.
Codeforces: Maximum rating 995, solved 554 problems.
Codechef: Maximum rating 1165, solved 85 problems.

Technical Skills

Languages: C, C++, Python, Matlab
Frameworks/Libraries: Pandas, Numpy
WebDev: HTML, CSS, JS, PHP, MySQL
IDE & Tools: VS Code, Jupyter Notebook, MS PowerPoint, LaTeX