

Fatema Ferdous Tamanna

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📍 Dhaka, Bangladesh

🌐 Tamanna

Education

Bachelors in Computer Science and Engineering

Patuakhali Science and Technology University

January 2019 – December 2024

Barisal, Bangladesh

Skills

Programming Language

Python, C++, Java

Tools and Technologies

AWS, TensorFlow, Pandas, Scikit-learn

Databases

SQL, MySQL, PostgreSQL

Awards

Champion at Barisal Divisional Hackathon

Hackverse, CSE Club, PSTU

2023

Ranked 9th, Mujib Borsho IT Carnival

Vivasoft,TVS, CSE Club PSTU

2022

Projects

Facial Expression Recognition with Keras

Fine Tuning Stable Diffusion Model for Image-to-Image Generation

Profile

Experienced in model training, designing, and deploying AI models, with a strong focus on optimizing performance. Committed to continuous learning and approaching projects with a supportive, team-oriented mindset.

Experience

Freelance AI Engineer

Outlier AI [🔗](#)

August 2024 – present

- Built and fine-tuned machine learning models and deep learning algorithms ensuring high accuracy and reliability.
- Optimized ML pipelines with hyperparameter tuning for scalability and production deployment.
- Analyzed and processed large datasets to extract insights using Regression, Classification and Segmentation.
- Collaborated across domains with developers and data engineers to implement AI-driven innovations.

Research Assistant

Patuakhali Science and Technology University

July 2023 – September 2024

- Designed and implemented a hybrid model combining BiLSTM, BiGRU, TCN, and attention mechanisms to address the challenges of time series forecasting.
- Performed extensive preprocessing and feature engineering to prepare diverse time series datasets for modeling.
- Achieved significant improvements in prediction accuracy and model robustness.
- Evaluated and fine-tuned model performance using a range of metrics, optimizing for precision and computational efficiency.

Publications

Enhancing Prediction Accuracy of Time Series data using Ensemble Deep Learning Methods

International Conference on Innovations in Science, Engineering and Technology 2024 (ICISSET 2024)

Built a hybrid deep learning model for predicting all kinds of time series data.

Hybrid Deep Learning Approach for Load Profile Prediction

International Conference on Sustainable Technologies for Industry 5.0(STI 2024)

Focused on a hybrid deep learning model for predicting industrial load profiles.