S M SAMIN

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Graduate in Computer Science and Engineering

SUMMARY

A highly motivated and detail-oriented Computer Science professional with expertise in deep learning, natural language processing, and big data technologies. Experienced in developing and implementing machine learning models for real-world applications, including music recommendation systems and medical image processing. Passionate about leveraging AI for automation and data-driven insights.

EDUCATION

Ahsanullah University of Science and Technology

Bachelor of Science in Computer Science and Engineering (CSE) 2020 – 2024
Cgpa: 3.84 out of 4.00

SKILLS

- **Programming:** Python, C, C++, Java, JavaScript, SQL
- **Frameworks & Libraries:** PyTorch, TensorFlow, Keras, PySpark
- **Big Data Technologies:** Apache Spark, Hadoop
- **Web Development:** HTML, CSS, React, Tailwind
- **Tools:** Google Colab, Visual Studio Code, Git, Docker

ACHIEVEMENTS

- **Dean's Honor of List** - Ahsanullah University of Science and Technology, 2025

PROJECTS

Kidney Tumor Detection and Classification using CNN Architecture

- Designed a dual-task CNN model for tumor detection and classification, achieving high accuracy.
- Provided insights for the development of automated diagnostic systems in medical imaging.
- GitHub Repository: https://github.com/samin710/KTDC

Music Recommendation System using Deep Learning and PySpark

- Developed a personalized recommendation system using deep learning and collaborative filtering techniques.
- Implemented user-artist interaction prediction using embedding layers in Keras and PySpark for data preprocessing.
- GitHub Repository: https://github.com/samin710/Recommending-Music-and-the-Audioscrobbler-Data-Set/tree/main

Hate Speech Detection in Bengali Using Deep Learning

- Developed a hate speech detection system for Bengali using NLP and deep learning techniques.
- Implemented Logistic Regression, LSTM, BiLSTM, and ConvBiLSTM models for effective classification.
- Provided a categorized dataset for Bengali hate speech, enhancing research in this under-resourced language.
- GitHub Repository: https://github.com/samin710/Unraveling-Hate-Speech-For-Bengla-Language

Fake News Detection Using Machine Learning

- Developed a fake news detection system using machine learning models.
- Implemented Logistic Regression, CNN, RNN, and BiLSTM for effective classification.
- Collected and processed a dataset from Kaggle, improving text-based misinformation detection.
- GitHub Repository: https://github.com/samin710/Fake-News-Detection

Connected Four Puzzle Game

- Developed a Connect Four game where the player competes against a computer using a minimax algorithm with alpha-beta pruning for decision-making.
- The game includes intelligent AI, which adapts its strategy based on board evaluation and opponent's moves.
- Utilized numpy for efficient board manipulation and random library to decide the starting player.
- GitHub Repository: https://github.com/samin710/Connect-Four-Game