Towhid Ahmed

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Summary

Software Engineer with strong problem-solving skills and hands-on experience building ML and DL models using TensorFlow, Keras, and Scikit-learn. Skilled in Java, Python, OOP, SQL, and Data Structures, with 500+ solved problems across LeetCode and GFG. Developed real-world neural network models including CNNs, ANNs, and recommendation systems. Self-taught and committed to writing clean, efficient, and scalable code.

Technical Skills

- Programming Language: Java, Python
- Backend & API: FastAPI and REST API
- Core CS: Data Structures & Algorithms, OOP, SQL Queries,Operating Systems, Database Management, Computer Networking
- ML/DL: Supervised, Unsupervised, Scikit-learn, CNN, ANN, RNN, TensorFlow, Keras
- Tools & Platforms: Git, GitHub, Linux, VS Code, Jupyter Notebook
- Low Level Design: SOLID Principles, Singleton, Factory, Strategy, Observer, Decorator, Adapter
- Other: Problem Solving, System Design Basics

Projects

Movie Recommendation System **GitHub Link**

- Built a recommendation system using collaborative and content-based filtering.
- Deployed the application on Render for real-time access and testing.
- Implemented FastAPI backend and Streamlit frontend for interactive user experience.

Face Mask Detection (CNN) **GitHub Link**

- Developed a convolutional neural network to detect face masks in real-time images.
- Implemented real-time prediction and visualized training/validation performance.
- Achieved 92.19% accuracy, demonstrating practical application of computer vision techniques.

Customer Churn Prediction (DL) **GitHub Link**

- Built a binary classification model using TensorFlow/Keras to predict customer churn based on demographics and account information.
- Performed data preprocessing, feature encoding, scaling, and train-test splitting
- Achieved 79.33% test accuracy and visualized model performance using confusion matrix and classification metrics.

Breast Cancer Classification **GitHub Link**

- Created a neural network using TensorFlow/Keras to classify tumors as benign or malignant.
- Conducted data preprocessing and feature scaling for model training.
- Achieved 94.35% test accuracy and visualized training/validation performance for evaluation.

Education

Bachelor of Business Administration (BBA) – Management

NagirHat College, Chittagong Bangladesh 2nd Year (Ongoing), Expected Graduation: 2028

Achievements (Self-Taught Software Engineer)

- Solved 500+ DSA problems (LeetCode + GFG)
- Built top ML/DL projects including CNN and ANN models
- Self-taught technical skills while pursuing a non-CS degree.