Towhid Ahmed

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Summary

Highly motivated Software Engineer with strong problem-solving skills, having solved 500+ coding problems across LeetCode and GeeksforGeeks. Proficient in Data Structures & Algorithms, Core Java, and Low-Level Design principles. Experienced in building Machine Learning and Deep Learning models, including real-world applications in classification, prediction, and Convolutional Neural Network.

Technical SKILLS

- Programming: Java, Python
- Data Structures & Algorithms: Arrays, Strings, Linked Lists, Trees, Graphs, Dynamic Programming, Greedy etc.
- ML/DL: CNN, ANN, RNN, TensorFlow, Keras, Scikit-learn
- Databases and Api: MySQL, Fast API
- Tools: Git, GitHub
- Concepts: OOP, LLD(SOLID Principles, Singleton, Factory, Strategy, Observer, Decorator, Adapter)

PROJECTS

Customer Churn Prediction (DL) Link
- Built an ANN model to predict customer churn with high accuracy.
- Performed data cleaning, feature engineering, and hyperparameter tuning.

Face Mask Detection (CNN) Link
- Designed and trained a CNN to classify masked vs unmasked faces.
- Achieved strong accuracy using augmentation and custom model architecture.

Breast Cancer Classification Link
- Implemented ML and DL models for binary classification.
- Compared SVM, Random Forest, and Neural Networks.

Movie Recommendation System Link
- Built a recommendation system using collaborative filtering and content-based filtering to suggest personalized movies to users.
- Achieved accurate recommendations across similar genres and user behavior patterns.

Email/SMS Spam Detection Link
- Trained multiple models (Naive Bayes, Logistic Regression, SVM) and optimized performance through hyperparameter tuning.
- Achieved high accuracy and strong precision/recall on real-world message datasets.

EDUCATION

Bachelor of Business Administration (Honours) – Management
NagirHat College, Chittagong Bangladesh 2nd Year (Ongoing), Expected Graduation: 2028

ACHIEVEMENTS
- 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.