TAHMIDA MAJUMDER

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PROFESSIONAL SUMMARY

As a dedicated bachelor's student in Artificial Intelligence, I am passionately committed to leveraging my skills to tackle complex problems through innovative AI and data-driven solutions. With a focus on data analysis and a strong foundation in programming, I aim to contribute to the advancement of AI technologies by developing machine learning models and analyzing business performance and trends in finance. While I acknowledge there is always more to learn, I approach challenges with confidence in my abilities as a quick learner and critical thinker. Through collaboration and effective communication, I strive to transform raw data into actionable insights and drive strategic decisions in any data-centric role. Additionally, my proficiency in programming, automation, and user experience enhancement empowers me to make meaningful contributions to projects and teams.

EDUCATION

Multimedia University, Melaka | **Degree: BSc. Artificial Intelligence** | July 2022 - Expected Graduation Oct 2025 | CGPA: 3.65(upto 5 sem out of 10)

Govt. Agragami Girls' High School & College, Bangladesh | **Degree: High Secondary Certificate** | 2017 - 2018 | CGPA: 5.00

PROJECTS

MACHINE LEARNING PROJECT| Python, Decision Tree, Random Forest, Linear Regression, KNN, Neural Network

- Implemented machine learning algorithm to predict rent price in Dubai. Data collected from “bayut.com”.
- Utilized machine learning pipeline (Problem Formulation, Pre-processing (Data analysis, Data Cleaning, Data Visualization, Outlier Detection and Replacing, OneHotEncoding, Feature Importance), Splitting the Dataset, Model Training, Evaluation (r^2, RMSE, MAE), Hyperparameter Tuning.
- With KNN r^2 score on testing data is 98.8%.

EXCEL PROJECT

- Built an interactive dashboard to analyze bike sales data from 2011-2016 across different countries.
- *Data Preparation*: Divided dataset into three sheets; used one sheet for dashboard creation. one for testing. *Dashboard Features*: Added slicersand trend analyses using pivot table and graphs.
- Comprehensive insights into bike sales performance through detailed revenue, cost, and profit summaries.

POWER BI PROJECT

- Developed a Power BI dashboard to analyze car prices in the USA from 1982-2015, providing insights for future trends in car showrooms.
- *Data Preparation*: Cleaned data using Python and exported the cleaned CSV file. Created a Profit_Loss column in SQL Server. *DashboardFeatures:* Connected to SQL Server to Power Bi, includes slicers and visualized data with tables and trend graphs.
- Delivered a detailed and interactive dashboard for analyzing car sales performance, trends, and profitability.

DECISION TREE PROJECT| Python, Decision Tree, Random Forest, XGBoost

- Build a machine learning project that could predict customer churn.
- Created a comprehensive machine learning pipeline, including pre-processing and feature importance analysis; applied algorithm tuning and confusion matrix evaluation to predict outcomes.
- With accuracy over 75.11%, was able to make predictions on the unseen data over 5,000 rows.

DATA STRUCTURE ALGORITHM PROJECT| C++, LINKED LIST, BUBBLE SORT, FILES

- Applied linked list to implement a vending machine system for admin and users with data being accessible with Files.
- Initiated a robust two-way data system with the fstream library, allowing real-time updates for customers and admins; incorporated bubble sortfor optimal list order.
- For smaller vending machines it could be used by adding a few more functionalities.

OBJECT ORIENTED PROGRAMMING PROJECT| JAVA, SWING, FILES

- Build an interactive food pos system using java swing library.
- With an interactive system mimicking McDonald's self-ordering system to allow users to order and pay. At the end get a receipt for the ordersaved in the txt file.
- This system is helpful for smaller shops looking to integrate a self-ordering system with real time saving the data.

SKILLS

PROGRAMMING LANGUAGE: Python| C++ | Java | SQL

MACHINE LEARNING SKILL: Linear Models | Ensemble Models | Support Vector Machine | Neural Network | Machine Learning Pipeline | Feature Engineering |Exploratory Data Analysis (EDA) | Data Cleaning

TOOLS: Jupyter NoteBook | Excel | Power Bi | SQL Server Management | Google Colab | CodeBlocks | Eclipse | Figma

LIBRARIES ANDPACKAGES: Python Libraries: pandas| NumPy | scikit-learn | matplotlib | Seaborn. **Java Package:** Java Swing

DESIGN: Low-Fi, Hi-Fi, Prototype

LANGUAGE

English (C1) | Bangla (Fluent)