

Mahboob Alam

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 <https://github.com/MahboobAlam0>

Introduction

My name is Mahboob Alam. I am pursuing M.Tech in Data Science. I am eager to work in a collaborative environment where I can learn from experienced professionals, contribute to impactful projects, and grow both technically and analytically. I am particularly interested in exploring large datasets, uncovering insights, and using data to support informed decision-making.

I am proficient in Python, SQL, and data visualization, enabling me to analyze complex datasets effectively. Additionally, I have a keen interest in machine learning and statistical modeling, which help in making accurate predictions and optimizing business strategies.

Projects

Movie Recommender System | Cosine Similarity, Streamlit

- Built a content-based movie recommender system using the TMDb Kaggle dataset.
 - Preprocessed data by extracting features such as genres, keywords, and movie descriptions, and combined them into a unified feature set.
 - Implemented **cosine similarity** to measure the similarity between movies and recommend top-N similar movies based on a given input.
 - Improved recommendations by incorporating movie metadata and optimizing the feature engineering process.
- Developed a user-friendly function to retrieve similar movies, tested with popular titles, and validated results.

Customer Churn Predictive Analysis | Logistic Regression

- **Objective:** Predict customer churn for a telecom company using ML.
- **Data Preprocessing:** Handled missing values, one-hot encoding, and feature scaling.
- **EDA:** Analyzed churn trends using histograms, correlation heatmaps, and tenure categories.
- **Model:** Implemented **Logistic Regression**, optimized with **GridSearchCV**.
- **Business Impact:** Identified high-risk customers for retention strategies.

Technical Skills

Languages: Python, C

Technologies: Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Machine Learning

Databases: MySQL.

Tools: VSCode, Jupyter Notebook, Google Colab.

Operating Systems: Windows, Linux, MacOS.

Education

Defence Institute of Advanced Technology – DRDO, Pune

2024-2026

Master of Technology degree with a specialization in Data Science (7.31 SGPA)

Rao Birender Singh State Institute of Engineering and Technology, Rewari

2019-2023

Bachelor of Technology degree with a specialization in Computer Science and Engineering (58.29 %)

Bal Bharti Inter College, Amroha

2017-2018

Intermediate with PCM (73.8 %)