1.Recommender Movie PDF

This project contains code for a recommender system that employs a linear model that accounts for user and movie biases. The project includes data preprocessing, model testing and training, computation of bias, and a thorough model performance assessment. The linear model and anticipated ratings are used to generate the suggestions, which offer consumers individualized movie selections.

2. Case Study - Predictive

This project contains a summary of a paper titled "Machine Learning Approaches to Predicting No-Shows in Pediatric Medical Appointments," published in Npj Digital Medicine in 2022. The study addresses the critical issue of predicting no-shows in pediatric medical appointments, which can lead to inefficient healthcare resource utilization and poor patient outcomes.

3. Predictive Modeling for Salary

This project contains research and code related to predictive modeling for salary categorization of employees. The research aims to address the challenge organizations face in effectively categorizing employee pay as high, medium, or low. A fair and balanced compensation system is essential for employee engagement and organizational performance. The study explores the use of various predictive models, including logistic regression, random forests, decision trees, and naive Bayes, to predict employee salary categories based on multiple independent variables.

4. Loan Approval Analysis

This project contains an in-depth analysis of loan approval processes aimed at enhancing efficiency and accuracy. The project's objective is to develop predictive models to streamline and improve the loan approval process for both lenders and borrowers.

5. Using Data to Improve MLB Attendance PDF

This project contains an in-depth analysis of MLB attendance data with the aim of providing insights to improve attendance at baseball games. The analysis is conducted using R and various packages, including purrr, dplyr, stringr, and forcats.

6.Time Series Analysis

This project repository serves as a valuable resource for individuals interested in time series analysis and predictive modeling for US Retail sales data. It offers a clear and structured approach to analyzing and forecasting monthly retail sales trends while providing insights into model performance through the RMSE metric.

7. Flight Safety Dashboard – This project repository serves as a visualization dashboard and emphasizes the importance of data-driven insights in understanding flight safety.

8. Depression Prediction using Machine Learning - This project contains research and code related to predictive modeling for the early detection of depression in individuals. The research aims to address the critical challenge of identifying individuals at risk of depression and providing timely intervention. Early detection is essential for improved mental health outcomes and reducing the social impact of untreated depression.

9. A Study on Ad Click Prediction - this study provides valuable insights into the performance of machine learning models for online advertisement click prediction. It emphasizes the importance of considering specific goals, constraints, and ethical considerations in selecting and applying these models. The findings and limitations highlight the ongoing need for refinement and adaptation in real-world applications.

10. Student Analysis - this analysis focused on five key variables, employing histograms and probability mass functions to spot outliers and compare various scenarios. This analysis aims to deepen our insights into the factors influencing high school student performance, ultimately crafting precise models for predicting final grades.