

Airline Passenger Satisfaction

Dataset Proposal:

Description:

The dataset, based on a survey of 103,904 customers, reveals airline passenger satisfaction. It includes gender, travel type, class, flight distance, and ratings on aspects like check-in and hospitality, offering insightful passenger experience data.

Why this dataset is interesting for visualization:

This dataset is particularly interesting for visualization because it allows for exploration of various factors that contribute to passenger satisfaction in air travel. Static plots such as bar plots, histograms, and box plots can be utilized to visualize distributions, relationships, and trends in the data. Important features for static plots include 'Gender', 'Age', 'Type of Travel', 'Class', and various satisfaction-related metrics like 'Inflight Wi-Fi service', 'Seat comfort', 'On-board service', etc. Heatmaps to visualize correlations between different features such as satisfaction metrics and flight details. Violin plots show the distribution of satisfaction scores across different demographic groups or travel types. Radar charts to compare the satisfaction levels across multiple dimensions such as inflight services, cleanliness, and departure/arrival punctuality.

Interactive Dashboard Plan:

For the interactive dashboard, features such as 'Gender', 'Customer Type', 'Age', 'Type of Travel', and 'Class' will be included for interactive plots. The dashboard will consist of dropdown menus, sliders, and checkboxes to allow users to select and filter data based on their preferences. Users will be able to dynamically explore the dataset by adjusting these filters to view satisfaction levels across different demographics, travel types, and classes. The dashboard will also include interactive plots such as scatter plots, bar charts, and heatmaps to visualize relationships and patterns in the data. Additionally, tooltips and hover effects will provide users with detailed information when interacting with the plots, making the dashboard user-friendly and practical for exploration.

Source of the Dataset:

The dataset is obtained from Kaggle, a widely recognized platform for sharing and accessing datasets.

[Airline Passenger Satisfaction \(kaggle.com\)](https://www.kaggle.com/datasets/airline-passenger-satisfaction)