**Cyclistic's Historical Trip Data**

**Description:**

Cyclistic’s historical trip data comprises over 5 million comprehensive and reliable records per year, sourced from Motivate International Inc. The dataset includes detailed information on bike trips, encompassing ride type, trip durations, station details, and user statuses (casual or member). Each trip record is uniquely identified by a ride ID and includes attributes such as rideable type, start and end timestamps, station names and IDs, as well as geographical coordinates for both starting and ending stations. This dataset serves as a valuable resource for analyzing bike usage patterns, user behaviours, and operational insights for Cyclistic's bike-sharing service.

**Source:**

The public data has been made available by Motivate International Inc. under license.

**Data Overview:**

Sample Size: Over 5 million trip records per year

Format: CSV (Comma-Separated Values)

File Count: 12

**Data Attributes:**

* ride\_id: Unique identifier for each bike trip.
* rideable\_type: Type of bike used for the trip.
* started\_at: Start date and time of the trip.
* ended\_at: End date and time of the trip.
* start\_station\_name: Name of the station where the trip started.
* start\_station\_id: ID of the station where the trip started.
* end\_station\_name: Name of the station where the trip ended.
* end\_station\_id: ID of the station where the trip ended.
* start\_lat: Latitude of the starting station.
* start\_lng: Longitude of the starting station.
* end\_lat: Latitude of the ending station.
* end\_lng: Longitude of the ending station.
* member\_casual: User status indicating if the user is a casual rider or a member.

**Data Quality:**

The downloaded original dataset from Cyclistic is reliable, accurate, and comprehensive, with complete and unbiased information. It is a proven fit for use in data analysis and modelling.

**Exploratory Data Analysis (EDA) Highlights:**

Distribution of rideable types

Trip duration analysis

Popular start and end stations

Seasonal trends in bike usage

Statistical Insights:

Average trip duration

Peak hours of bike usage

Proportion of casual vs. member users

**Conclusion/Summary:**

Cyclistic’s historical trip data provides a rich source of information for understanding bike usage patterns and user behaviour. The dataset's completeness and reliability make it valuable for various data analysis and modelling purposes.