Ddelivery Time Historic Data "Case study"

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Introductio n

This project represents case study of analyzing historical Delivery Time Data.

 Historical data for Orders Delivery Times, including the Rating and the age of Captain, the geographical location of both restaurant and delivery location.

Data

- 1.EDA which exploring the data examining and understanding the characteristics of your dataset
- 2.Cleaning the data and make it more ready for the analysis and visualization
- 3.visualizing the data for gaining insights, identifying patterns, and communicating findings in a clear and effective manner

Objectives:





EDA

Basic Information about the Dataset:

- few rows of the dataset to get an overview.
- the data types of each column.
- missing values.
- Summary of the dataset

```
# Display the first few rows
print(Data.head())
  ID Delivery_person_ID Delivery_person_Age Delivery_person_Ratings \
4607
         INDORES13DEL02
                                          37
                                                                   4.9
B379
                                                                   4.5
         BANGRES18DEL02
                                          34
5D6D
                                          23
                                                                   4.4
         BANGRES19DEL01
7A6A
        COIMBRES13DEL02
                                          38
                                                                   4.7
                                          32
70A2
         CHENRES12DEL01
                                                                   4.6
Restaurant_latitude Restaurant_longitude Delivery_location_latitude \
          22.745049
                                75.892471
                                                             22.765049
          12.913041
                                77.683237
                                                             13.043041
          12.914264
                                77.678400
                                                             12.924264
          11.003669
                                76.976494
                                                             11.053669
          12.972793
                                80.249982
                                                             13.012793
Delivery_location_longitude Type_of_order Type_of_vehicle Time_taken(min)
                  75.912471
                                   Snack
                                               motorcycle
                                                                         24
                                                                         33
                  77.813237
                                   Snack
                                                  scooter
                                                                         26
                  77.688400
                                  Drinks
                                               motorcycle
```

```
# Display data types
   print(Data.info())
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 45593 entries, 0 to 45592
Data columns (total 11 columns):
    Column
                                 Non-Null Count Dtype
    ID
                                 45593 non-null object
    Delivery_person_ID
                                 45593 non-null object
    Delivery_person_Age
                                 45593 non-null int64
    Delivery_person_Ratings
                                 45593 non-null float64
    Restaurant_latitude
                                 45593 non-null float64
    Restaurant_longitude
                                 45593 non-null float64
    Delivery_location_latitude
                                 45593 non-null float64
    Delivery_location_longitude 45593 non-null float64
    Type_of_order
                                 45593 non-null object
    Type_of_vehicle
                                 45593 non-null object
 10 Time_taken(min)
                                 45593 non-null int64
dtypes: float64(5), int64(2), object(4)
memory usage: 3.8+ MB
```

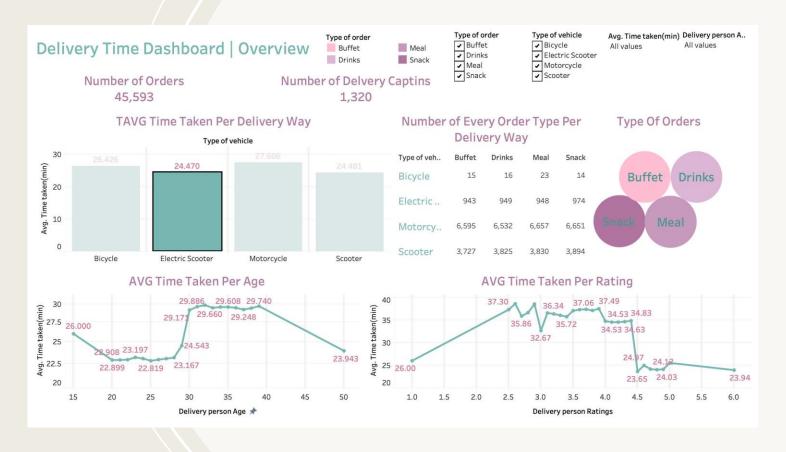
EDA visualization

- Histogram.
- Correlation Heatmap.
- Boxplot to identify outliers.





Creating the Dashboard Using Tableau



Access the live Dashboard By Clicking Here

Thanks for your attention