**Predicting People’s Movement In Nairobi**

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**AlmaBetter, Bangalore 2022**

**Abstract:**

This project is based on **Predicting People’sMovement In Nairobi**

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**1.Problem Statement**

For this project we will analysing and making model on people’s movement in Nairobi. This data set contains people’s movement for a city in Nairobi , and includes information such as

Ride id , seat number, payment method, payment receipt, travel date , travel time , travel from , travel to , car type and max capacity.

Travelling industry is a very volatile industry and the bookings depends on above factors and many more.

The main objective behind this project is to explore , analyse data and predict the travelling history to discover important factor that govern the travelling and give insights to travel industry management , which can perform various campaigns to boost the business and performance.

**2. Introduction**

### The travels industry adjust their prices using a specific algorithm which is know as promo code, discount code, coupon code. This algorithm automatically raises the croud in travel it will result the demand increases to to their buisness .

**3.Type of EDA**

EDA will be divided into 3 analysis.

Univariate analysis:- It is the Simplest of the three analyses where the data you are analysing is only one variable

Bivariate analysis:- It is where you are comparing two varieable to study their relationship.

Multivariate Analysis :- It is similar to Bivariate analysis but you are comparing more than two variables.

**Columns in my data:-**

Ride id , seat number, payment method, payment receipt, travel date , travel time , travel from , travel to , car type and max capacity

**Steps involved:**

**Step1**

Mount the google drive where the csv file contains. Then select the file and load in google collabe to operate on it.

Step 2

Import necessary libraries of python like numpy , pandas , seaborn, matplotlib.pyplot etc

Then load the file and extract the data from csv to google collabe.

Step3

Operate on file lie head, tail, copy etc on it to see the result of data .

After extracting every data we make a duplicate file to extract in graph.

Step 4

Now we should work on EDA( exploratory Data Analysis). And extract in graph method. Its is easy to understand from graph that which hotel or resort perform better in parrticular month or through out.

Step5

Built a model thayt predict the people’s movement.

**. Conclusion:**

Through my data it is clear that the people movement has maximum reach kisii than the other places . And maximum number of bookings per travell is one.

Through the linear regression model it include that prediction percent is 100% with complete accuracy .

That's it! We reached the end of our exercise.

.In all of these models our accuracy revolves in the 100%.

So the accuracy of our best model is 100% which can be said to be good for this large dataset..