**Predicting People’s Movement In Nairobi**

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**Abstract:**

This project is based on **Mobile Price Prediction.**

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**1.Problem Statement**

For this project we will analysing and making model on Mobile Price Prediction. This data set contains Mobile Price , and includes information such as

Battery\_power - Total energy a battery can store in one time measured in mAh

Blue - Has bluetooth or not

Clock\_speed - speed at which microprocessor executes instructions

Dual\_sim - Has dual sim support or not

Fc - Front Camera mega pixels

Four\_g - Has 4G or not

Int\_memory - Internal Memory in Gigabytes

M\_dep - Mobile Depth in cm

Mobile\_wt - Weight of mobile phone

N\_cores - Number of cores of processor

Pc - Primary Camera mega pixels

Px\_height - Pixel Resolution Height

Px\_width - Pixel Resolution Width

Ram - Random Access Memory in Mega Bytes

Sc\_h - Screen Height of mobile in cm

Sc\_w - Screen Width of mobile in cm

Talk\_time - longest time that a single battery charge will last when you are

Three\_g - Has 3G or not

Touch\_screen - Has touch screen or not

Wifi - Has wifi or not

Price\_range - This is the target variable with value of 0(low cost), 1(medium cost), 2(high cost) and 3(very high cost).

Mobile 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 price to discover important factor that govern the prediction and give insights to Mobile industry management , which can perform various campaigns to boost the business and performance.

**2. Introduction**

### The 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 mobile booking it will result the demand increases to to their buisness .

**Steps involved:**

**Step1**

Mount the google drive where the csv file contains. Then select the file and load in google collab 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 making models using linear regression , decission tree etc . And extract in model..

Step5

Check accuracy rate and the persent of success our model is performing.

**. Conclusion:**

Through my data it is clear that the price of phone is less or more but the demands is based on feature of offered by the phone . And maximum number of phone bookings depend on feature .

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..