Hessah Abdulaziz Alhodithy

**THE PURPOSE OF THE DATASET, ITS SOURCE AND ITS ATTRIBUTE**

**1. Question**

The purpose of our dataset is for business and marketing.

**Which features affect the price of the mobile?s**

**2. SOURCE**

The dataset that we are used in our project from Kaggle source that is one of the big sources for the dataset. Kaggle is one of the famous community for data scientists that involve a lot of datasets that help people to chive their objectives, explore and build helpful models and it provides challenges in data science [1].

**3. ATTRIBUTES**

1. The power of the battery (battery\_power): This means the total of energy that battery can store in one time and is measured in mAh.

2. Blue: if the mobile has Bluetooth or not.  
3. Clock\_speed: The speed of microprocessor to execute the instructions.

4. Dual\_sim: if the device has support of dual sim or not.

5. Fc: Front Camera in mega pixels.  
6. Four\_g: if the mobile has and support 4G or not.  
7. Int\_memory: Internal memory in GigaBytes.

8. M\_dep: Mobile depth in cm.  
9. Mobile\_wt: weight of mobile phone.  
10.N\_cores: number of cores of processor.  
11.Pc: Primary camera in mega pixels.  
12.Px\_height: Pixel Resolution Height.  
13.Px\_width: Pixel Resolution Width.  
14.Ram: Random Access Memory in Megabytes.  
15.Sc\_h: The height of screen of mobile in cm.  
16.Sc\_w: The width of screen of mobile in cm.  
17.Talk\_time: The longest time that a single battery charge will last when you

are.  
18.Three\_g: if the mobile has and support 3G or not.

19.Touch\_screen: if the mobile has touch screen or not.

20.Wifi: if the mobile has wifi or not.

**THE OBJECTIVE FOR THE DATASET ANALYSIS**

The objective of the dataset analysis is to classify the prices of mobile into one of four categories. These categories of mobile prices are categorized from 0 to 3 in increasing order of prices i.e 0 will be for the lowest range and 3 for the highest range. These categories are based on 20 different features for mobile as described above to find if there is a high relation between the prices of mobile and these features based on the accuracy result of classification algorithms used. Also, find which one of the features is affected more than the others on mobile prices to help manufacturers of smart devices to develop these features to increase their profits and compete with other companies. On the other hand, it will help mobile phone dealers in their trade to bring the mobiles that have the best features to increase their profits and in marketing for mobiles. Also, it helps users to buy smart devices at the best prices with good features.

**Tools**  
I will used tools that requirement of the project such as NumPy, Panda and other Python tools.

Reference:

[1] https://www.kaggle.com/vikramb/mobile-price-prediction