

PROJECT - DESCRIPTION

Data Set- Mobile Price Classification

Problem statement-

There is a person who wants to start his own Mobile company. He wants to give a tough competition to the tech giants of well established Mobile companies. He does not know how to estimate price of mobiles his company creates. In this competitive mobile phone market we cannot simply assume things. To solve this problem he collects sales data of mobile phones of various companies.

He wants to find out some relation between features of a mobile phone(eg:- RAM, Internal Memory etc) and its selling price.

Solution-

To solve this problem we will classify the mobile on the basis of different price ranges(low , medium, high and very high) .

We will be working on the following sections using IBM cloud platform :

- I. Data refining , cleaning and visualizations
- II. Visual Recognition Service
- III. Implementing the Machine Learning Model on selected data sets and deploying your model with the creation of a Job.
- IV. Concept of python using Jupyter notebook in IBM Watson

About Data Set-

This data set contains information related to Mobiles. It contains information about battery power, ram, bluetooth, wifi, height, width, price range etc of the mobiles of different types and companies . This data set contains 2000 rows and 21 columns.

Attribute Information-

Attribute Name	Description
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 megapixels
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 megapixels
px_height	Pixel Resolution Height
px_width	Pixel Resolution Width

ram	Random Access Memory in MegaBytes
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).

References : <https://www.kaggle.com/iabhishekofficial/mobile-price-classification>