



# Mobile Price Classification

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### **Problem Statement**

I'm always thinking about startup business, for example, if I were to open a business, how could I deal with that and what I need to know before I begin?

Technology and electronics are my passion, in 2019 I started a small business that offered electronic services with some HW/SW Support in one of Najran university's bazaars. During that time I faced many challenges and broke many barriers. The business started with success, but the bazaars had a limited duration, and finding high-quality phone pieces was difficult because of my ignorance of the various suppliers; I realize now that I needed to study the market first.

Searching for a dataset related to my business, I found Mr. Bob on Kegel asking for users to Classify the price ranges of an array of devices based on various features. With the skills I have acquired over the past 14 weeks, I am beginning to solve this problem with Data Science.

### work stream:



#### **Exploratory Data Analysis**

Loading dataset Processing data (null, duplicated values . outlier ) Visualizing data



Baseline model Random forest model K nearest neighbor model Decision tree model Stacking model



Comparing models Using boxplot



## Validate the best model using cross validation



