



MOBILE PRICE

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Introduction

A new mobile phone company (phoneky) we want to fight a tough battle with the big companies like Apple, Samsung, etc.

Project Objectives

- Look at important features of a mobile phone (eg: - RAM, 3G,4G,Wifi etc.)
- Need to predict the mobile price.

Data Set

- we will use data mobile phone from Kaggle.
- Dataset as 22 features and 2000 entries

Methodology



Gathering Data

Using Kaggle dataset

Exploratory Data Analysis

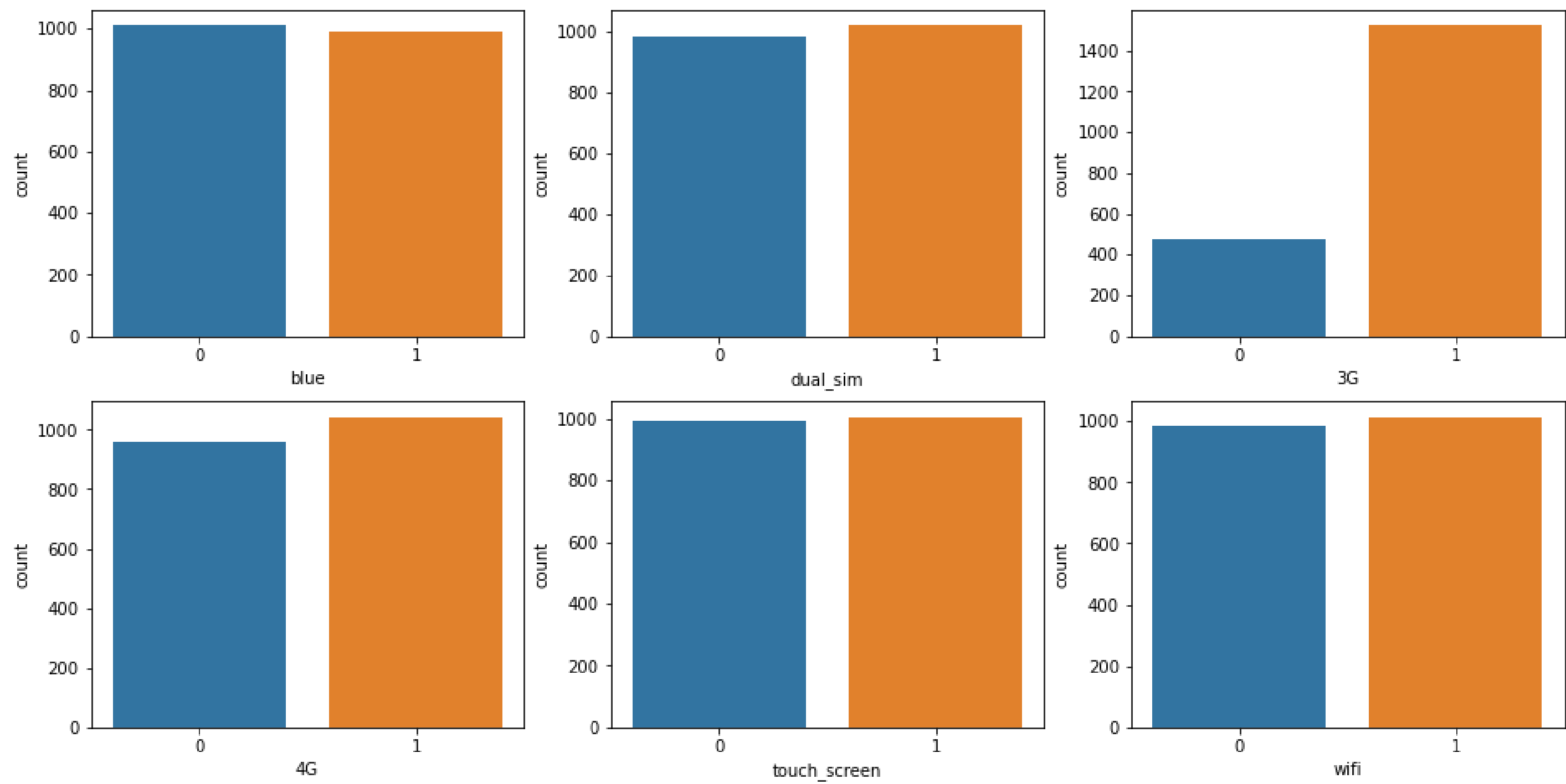
- Check if there are any missing values
- Show the unique values
- Cleaning
- Analysis and visualizing

Data preparation and Regression

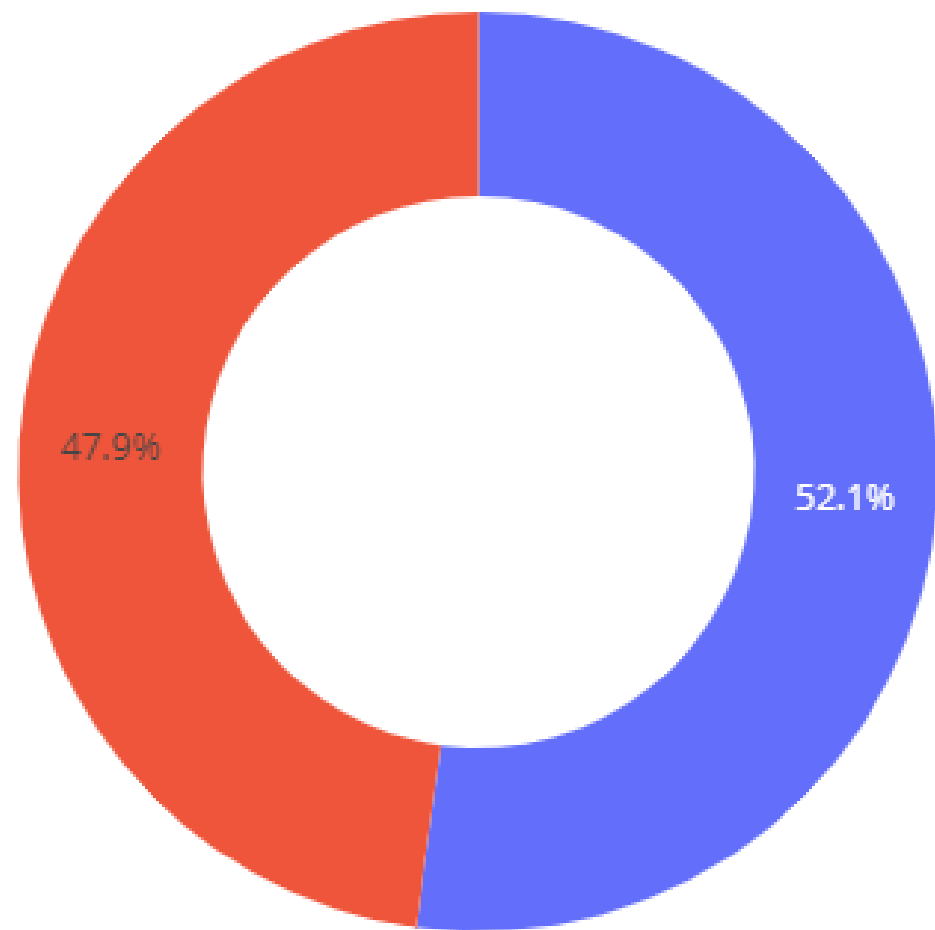
Exploratory Data Analysis



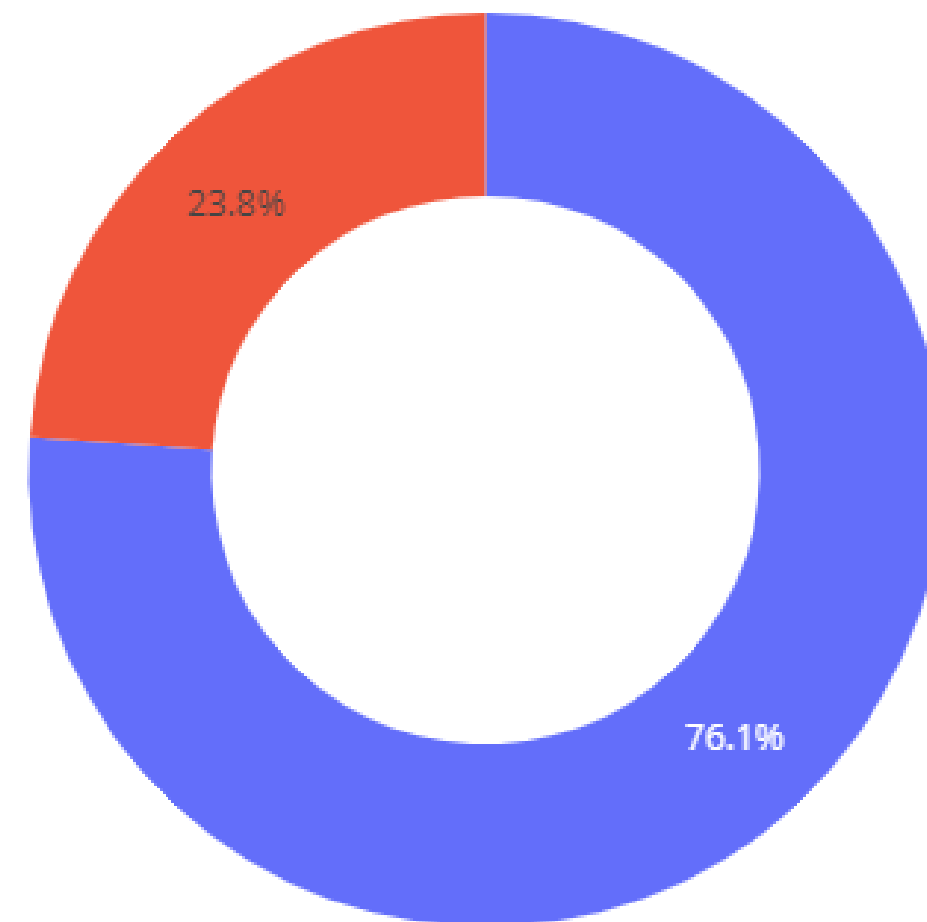
Some Feature :



How many phones are 3G - 4G supported?

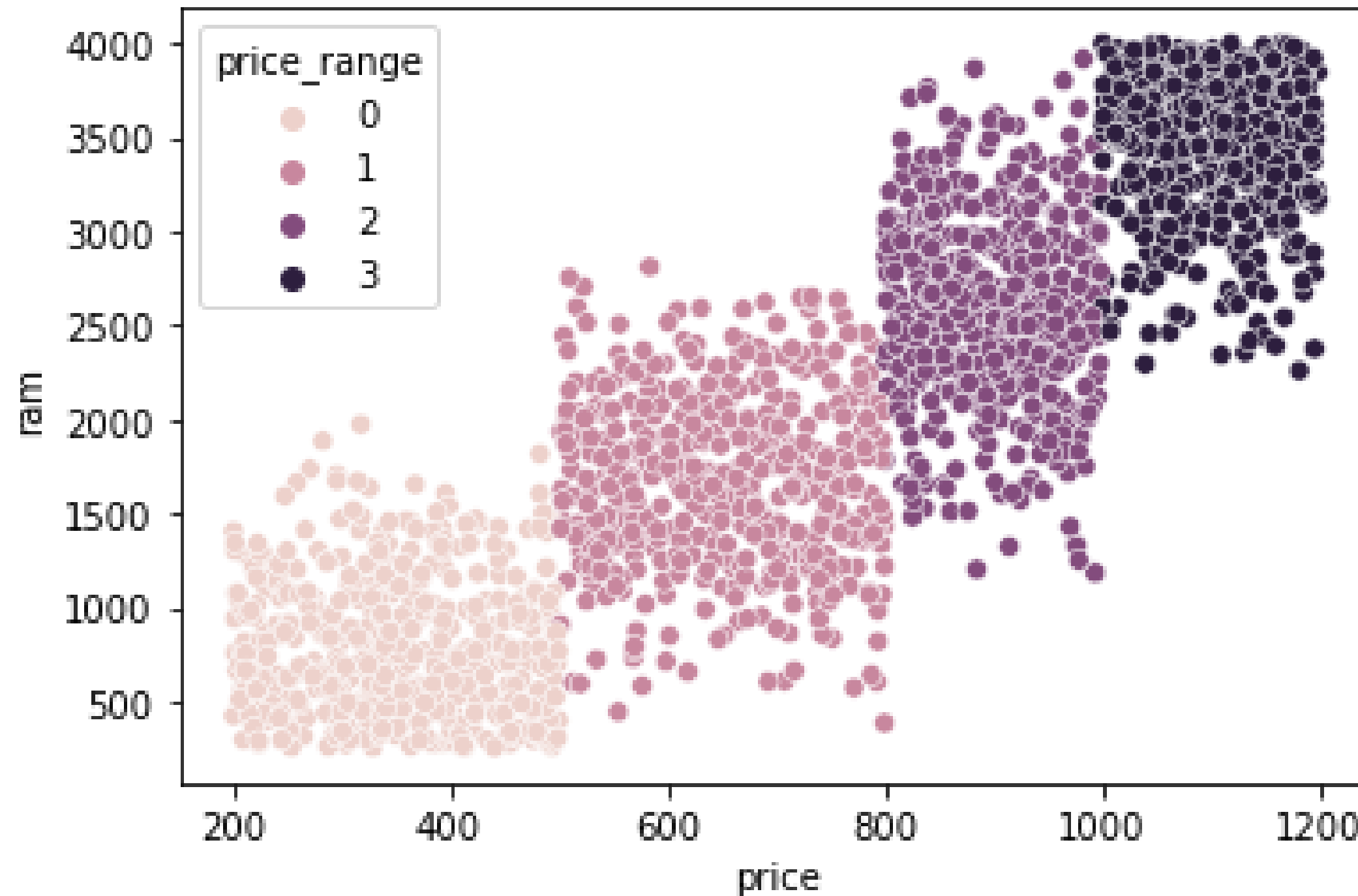


■ 4G
■ No 4G



■ 3G
■ No 3G

Relationship between price and ram

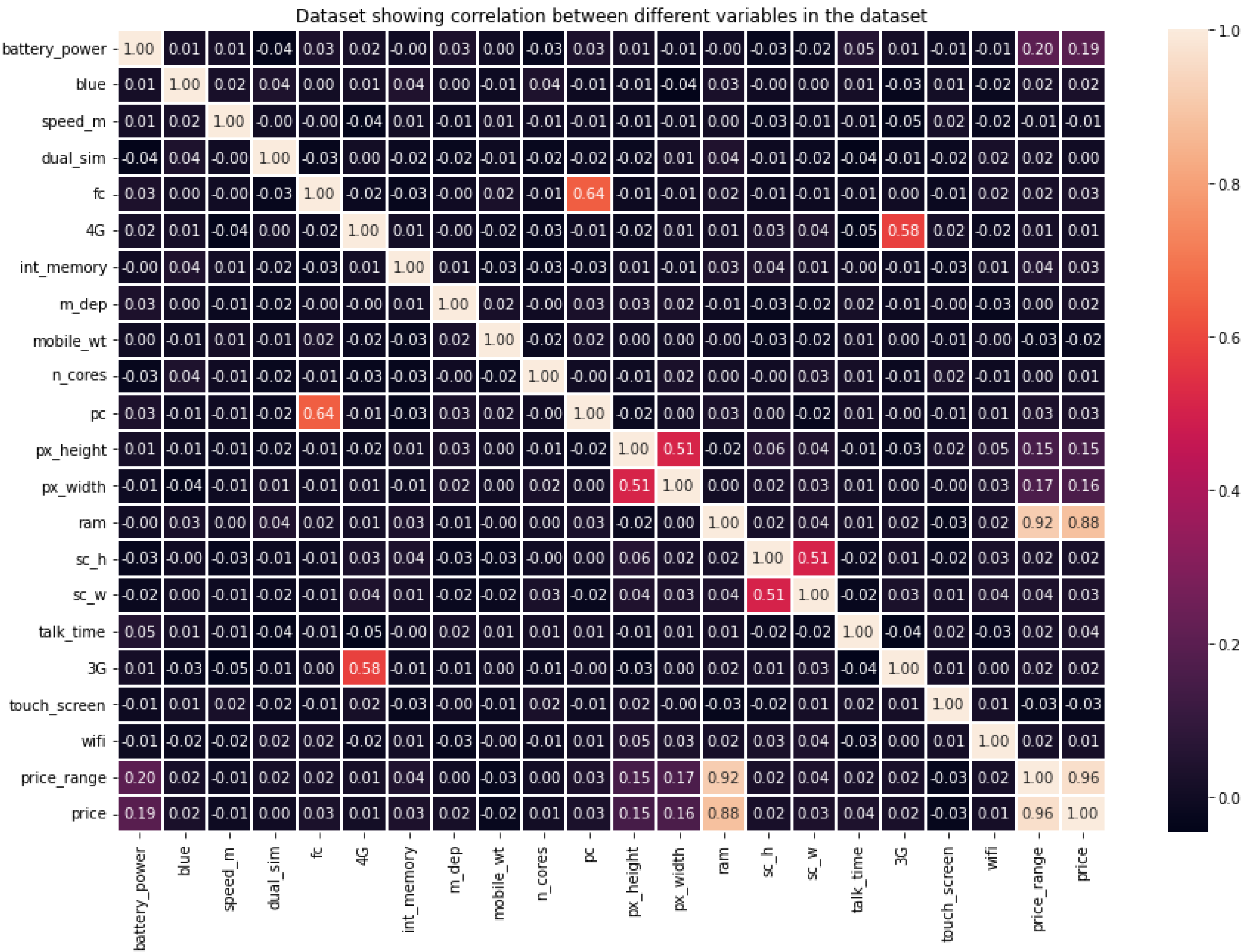




DATA PREPARATION

- **Splitting data**
 - 60% Train , 20% Validation , 20%Test
- **Feature Selection**
- **Feature Engineering**
- **Regression models**

Correlation



Regression Models	Training Score	Validation Score
Normal Linear Regression	0.9298	0.9291
Lasso Regression	0.9265	0.9152
Ridge Regression	0.9049	0.8190
Polynomial Regression Degree 2	0.9361	0.9382



THANK YOU !

We hope you enjoy it !