Exploratory anaysis and Predictive analytics on mobile phone price data

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1 Introduction

The mobile price prediction dataset contains 20 different features of mobile phones. The project aims to predict a given mobile phone's price category (cheap, moderate, economical, and expensive) based on its features.

2 Plans

Initial testing with Logistic Regression (77%) and Decision Tree (85%) gave poor accuracies, so the plans I have are

- Implement the known ML techniques on the data with parameter tuning and feature selection (ANOVA, p-test, correlation).
- Then I'll modify the data by converting continuous features to categorical features.
- Then I'll try to use Entropy (Expected information value) as a feature selection criteria.
- Then I'll implement the same techniques on the modified data with the new feature selection criteria and compare the results.

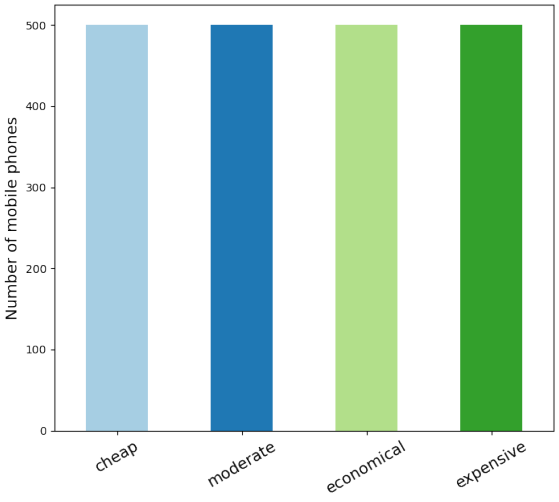

Figure 1: Distribution of data