Mobile Phone Data

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1 About the Data

The data presented contains information related to mobile phones. It contains 21 variables. The data is already split into training and testing. The training data contains 2000 observations. The testing data contains 1000 observations, however, it does not contain the class variable. Therefore, we will not be able to use it to calculate external classification error, and we will have to split our training data into training and testing again.

The data is obtained from the kaggle website, linked below.

Source: https://www.kaggle.com/datasets/iabhishekofficial/mobile-price-classification

2 Variables

- Battery power Total energy a battery can store in one time in mAh. This is a quantitative variable.
- Blue Whether the phone has bluetooth or not. This is a qualitative binary variable i.e. 0 or 1.
- Clock speed Speed at which the processor executes instructions in GHz.
 This is a quantitative variable.
- Dual sim Whether the phone has dual sim support or not. This is a qualitative binary variable.
- Fc Front camera megapixels. One megapixel is a million pixels. This is a quantitative variable.
- Four g Whether the phone has 4g or not. This is a qualitative binary variable.
- Int memory Internal memory in GB. This is a quantitative variable.
- M dep Mobile depth in cm. This is a quantitative variable.

- Mobile wt Weight of mobile phone in grams. This is a quantitative variable.
- N cores Number of cores of the processor. This is a quantitative variable.
- Pc Primary camera megapixels. This is a quantitative variable.
- Px height Pixel resolution height. This is a quantitative variable.
- Px width Pixel resolution width. This is a quantitative variable.
- Ram Random access memory in MB. This is a quantitative variable.
- Sc h Screen height of mobile in cm. This is a quantitative variable.
- Sc w Screen width of mobile in cm. This is a quantitative variable.
- Talk time Longest time that a single battery charge will last when you are using the calling someone on the phone. This is a quantitative variable.
- Three g Has 3g or not. This is a qualitative binary variable.
- Touch screen Has a touch screen or not. This is a qualitative binary variable.
- Wifi Has wifi or not. This is a qualitative binary variable.
- Price range Low cost (0), medium cost (1), high cost (2), and very high cost (3). This is a qualitative categorical variable.