

AIML PROJECT

# MOBILE PRICE PREDICTION

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ABETHNEGO S  
PES1PG23CA191  
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## ABSTRACT

### **Problem Statement:**

The goal of this project is to predict the price of a mobile phone based on its various features such as brand, model, storage capacity, RAM, screen size, camera resolution, and battery capacity.

By understanding the relationship between these attributes and the price, the model will provide insights into how these features influence the price of a mobile phone.

## SOURCE OF THE DATA

Data:<https://kaggle.com/mobile-price-prediction>

| Brand   | Model             | Storage | RAM   | Screen Size (inches) | Camera (MP)        | Battery Capacity (mAh) | Price |
|---------|-------------------|---------|-------|----------------------|--------------------|------------------------|-------|
| Apple   | iPhone 13 Pro     | 128 GB  | 6 GB  | 6.1                  | 12 + 12 + 12       | 3095                   | 82917 |
| Samsung | Galaxy S21 Ultra  | 256 GB  | 12 GB | 6.8                  | 108 + 10 + 10 + 12 | 5000                   | 99517 |
| OnePlus | 9 Pro             | 128 GB  | 8 GB  | 6.7                  | 48 + 50 + 8 + 2    | 4500                   | 74617 |
| Xiaomi  | Redmi Note 10 Pro | 128 GB  | 6 GB  | 6.67                 | 64 + 8 + 5 + 2     | 5020                   | 23157 |
| Google  | Pixel 6           | 128 GB  | 8 GB  | 6.4                  | 50 + 12.2          | 4614                   | 66317 |
| Apple   | iPhone 13         | 128 GB  | 4 GB  | 6.1                  | 12 + 12            | 2815                   | 66317 |
| Samsung | Galaxy Z Flip3    | 256 GB  | 8 GB  | 6.7                  | 12 + 12            | 3300                   | 82917 |
| Xiaomi  | Poco X3 Pro       | 128 GB  | 6 GB  | 6.67                 | 48 + 8 + 2 + 2     | 5160                   | 20667 |
| Oppo    | Reno6 Pro+ 5G     | 128 GB  | 8 GB  | 6.55                 | 50 + 13 + 16 + 2   | 4500                   | 58017 |
| Vivo    | X70 Pro+          | 256 GB  | 12 GB | 6.78                 | 50 + 48 + 12 + 8   | 4500                   | 99517 |
| OnePlus | Nord CE 5G        | 128 GB  | 6 GB  | 6.43                 | 64 + 8 + 2         | 4500                   | 27307 |

## DESCRIPTION

BRAND : The manufacturer or company that produces the mobile phone.

MODEL: The specific model name or number of the mobile phone.

STORAGE: The amount of internal storage available on the mobile phone

RAM:The amount of random access memory in the mobile phone.

SCREEN SIZE :The diagonal size of the mobile phone's display, measured in inches

## DESCRIPTION

Camera (MP): The resolution of the mobile phone's camera, measured in megapixels (MP).

Battery Capacity :The capacity of the mobile phone's battery,

Price :The cost of the mobile phone.

# **Learning Methodology and Algorithm**

**Methodology:**

Supervised Learning

**Algorithm :**

Random- Forests