**APPROACH FOR MOBILE PRICE PREDICTION**

**Idea**

To predict smart mobile prices using machine learning

**Making Dataset**

We tried looking up for dataset on mobile cost since we didn’t found any dataset from online we scrapped the dataset from <https://www.gadgets360.com>

**Moulding Data**

After scraping the dataset we cleaned the dataset and we brought it into the correct shape.

**EDA and Preprocessing**

First, we checked the null values of the attributes, the attributes whose null values are more we deleted them. Next, for the null values of other attributes we considered the central tendency of each attribute and based on them we filled the null values. As some of the attributes are classification we label encoded them to continuous values using label encoder from sklearn module.

**Train test split**

Using the train\_test\_split from sklearn we splitted the dataset into two parts for training and testing the model.

**Model selection**

Based on the attributes of the dataset and their behavior we choose Random Forest Regressor. After selecting the model we trained it and tested the accuracy of the model.

**Exporting the model**

Using joblib module we exported the model and label encoders used in the model training.

**Building a web app**

With the help of streamlit we built a web app and it uses our trained model, it predicts the price based on the inputs given by the user.

**Deploying web app**

We used streamlit cloud and then dropped our files there and deployed the web app. And hosted the web app at <https://mobilepriceprediction.streamlit.app/>