**AIM:Project on Mobile Price Prediction**

* In this Project, On the basis of the mobile Specification like Battery power, 3G enabled , wifi ,Bluetooth, Ram etc we are predicting Price range of the mobile
* In this data:
  + id:ID
  + battery\_power:Total energy a battery can store in one time measured in mAh
  + blue:Has bluetooth or not
  + clock\_speed:speed at which microprocessor executes instructions
  + dual\_sim:Has dual sim support or not
  + fc:Front Camera mega pixels
  + four\_g:Has 4G or not
  + int\_memory:Internal Memory in Gigabytes
  + m\_dep:Mobile Depth in cm
  + mobile\_wt:Weight of mobile phone
  + n\_cores:Number of cores of processor
  + pc:Primary Camera mega pixels
  + px\_height:Pixel Resolution Height
  + px\_width:Pixel Resolution Width
  + ram:Random Access Memory in Megabytes
  + sc\_h:Screen Height of mobile in cm
  + sc\_w:Screen Width of mobile in cm
  + talk\_time:longest time that a single battery charge will last when you are
  + three\_g:Has 3G or not
  + touch\_screen:Has touch screen or not
  + wifi:Has wifi or not

**USE:Where we use these kind of projects**

* This kind of prediction will help companies estimate price of mobiles to give tough competion to other mobile manufacturer
* Also it will be usefull for Consumers to verify that they are paying best price for a mobile.

**Applied Models:**

**Here we use different ML Models like-**

* Linear Regression
* KNN
* Logistic Regression
* Decision tree
* Random forest

In this project, we predict mobile phone prices based on specifications such as battery power, connectivity features (3G, 4G, Wi-Fi, Bluetooth), RAM, and camera megapixels. Key data attributes include battery capacity (mAh), internal memory (GB), processor cores, and screen dimensions. This predictive model aids manufacturers in pricing strategies, enabling competitive positioning in the market. Additionally, it benefits consumers by helping them confirm they are paying fair prices for mobile devices. Various machine learning models, including Linear Regression, KNN, Logistic Regression, Decision Tree, and Random Forest, are utilized to enhance accuracy and reliability in price estimation.

Screenshots:











