* **Telecom user dataset**
* <https://www.kaggle.com/radmirzosimov/telecom-users-dataset>
* **customerID** - customer id  
  **gender -** client gender (male / female)  
  **SeniorCitizen** - is the client retired (1, 0)  
  **Partner** - is the client married (Yes, No)  
  **tenure** - how many months a person has been a client of the company  
  **PhoneService** - is the telephone service connected (Yes, No)  
  **MultipleLines** - are multiple phone lines connected (Yes, No, No phone service)  
  **InternetService** - client's Internet service provider (DSL, Fiber optic, No)  
  **OnlineSecurity** - is the online security service connected (Yes, No, No internet service)  
  **OnlineBackup** - is the online backup service activated (Yes, No, No internet service)  
  **DeviceProtection** - does the client have equipment insurance (Yes, No, No internet service)  
  **TechSupport** - is the technical support service connected (Yes, No, No internet service)  
  **StreamingTV** - is the streaming TV service connected (Yes, No, No internet service)  
  **StreamingMovies** - is the streaming cinema service activated (Yes, No, No internet service)  
  **Contract** - type of customer contract (Month-to-month, One year, Two year)  
  **PaperlessBilling** - whether the client uses paperless billing (Yes, No)  
  **PaymentMethod** - payment method (Electronic check, Mailed check, Bank transfer (automatic), Credit card (automatic))  
  **MonthlyCharges** - current monthly payment  
  **TotalCharges** - the total amount that the client paid for the services for the entire time  
  **Churn** - whether there was a churn (Yes or No)
* **metric variables** -3
* **categorical variables**-12
* **Boolean variable**- 5
* **Our dataset has 5986 observation**
* our group is planning to use for R for final Project

**Mobile price Classifiction.**

[**https://www.kaggle.com/iabhishekofficial/mobile-price-classification**](https://www.kaggle.com/iabhishekofficial/mobile-price-classification)

**this dataset looking for some relation between features of a mobile phone and its selling price .**

**One Numeric Dependent Variable:**

**Price\_range:** this is the target variable with value of 0(low cost),1(medium cost),2(highcost)and 3(very high cost)

* **Numeric Independent Variables:**
* **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**: Moblie depth in cm
* **Moblie\_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.
* All variable are **metric variables**
* **Our dataset has 1000 observation**
* We will use Rstudio in our Analysis:
* Clean Dataset
  + Missing values, etc.
* Import data
* Exploration steps
  + Histograms, descriptives, etc.
* Analysis steps
  + Fit the full model and check for all assumptions and diagnostics
    - multicollinearity
* Come up with the final model
* Test the performance using the test set
* Compare performance
* Compute predictions