# ICP4

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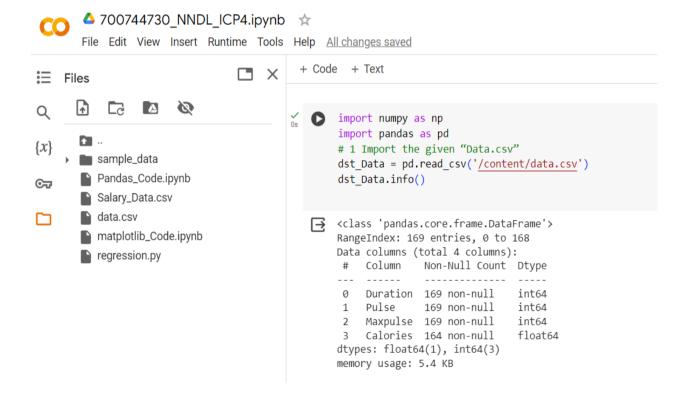
GitHub Link: https://github.com/vamsikrishnaremala/700744730 NNDL ICP4

#### Video Link:

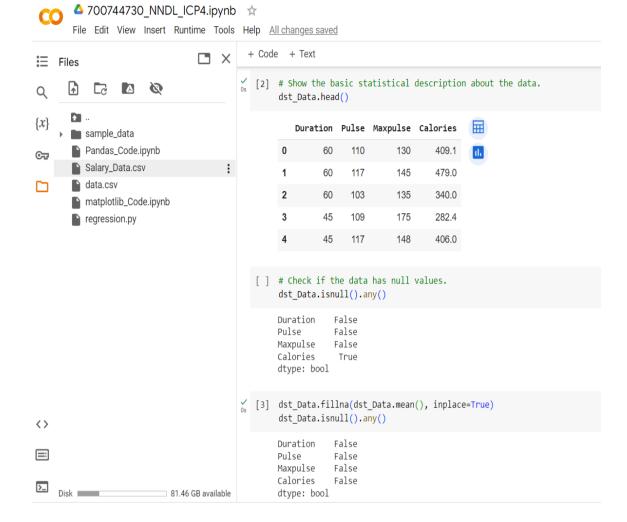
https://drive.google.com/file/d/10HXr3Rl8r2THtC6UIHvxU7ujB-0RRF2P/view?usp=sharing

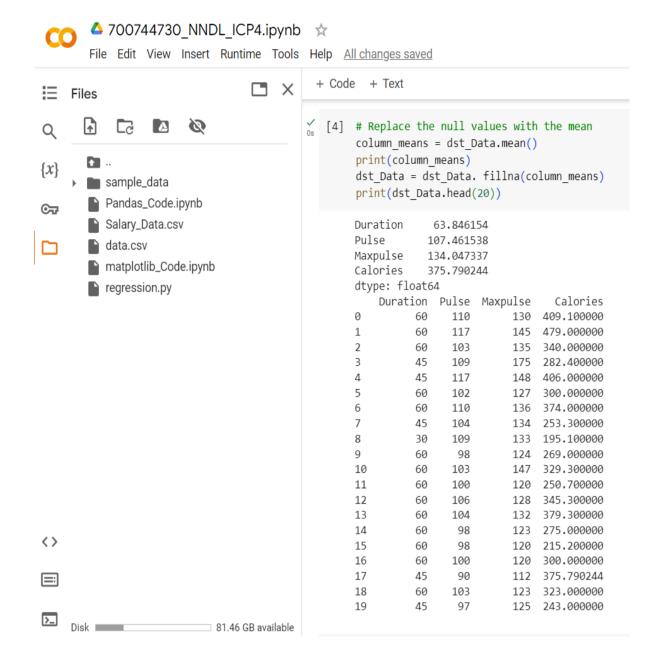
#### 1. Data Manipulation

a. Read the provided CSV file 'data.csv'.

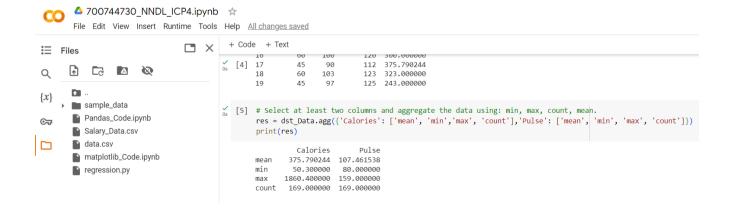


- b. Show the basic statistical description about the data.
- c. Check if the data has null values.
  - i. Replace the null values with the mean.

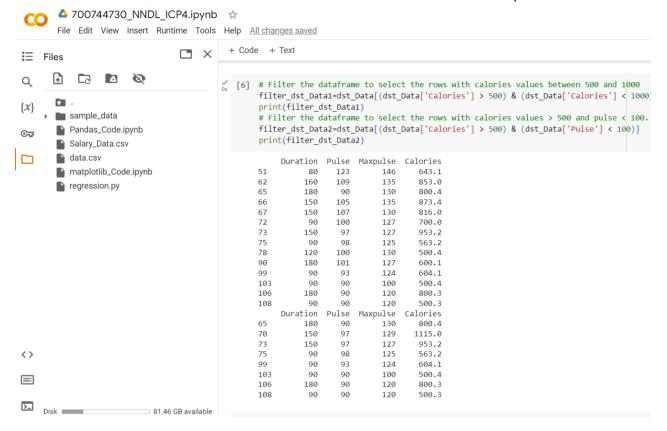




d. Select at least two columns and aggregate the data using: min, max, count, mean.

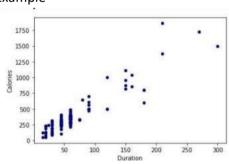


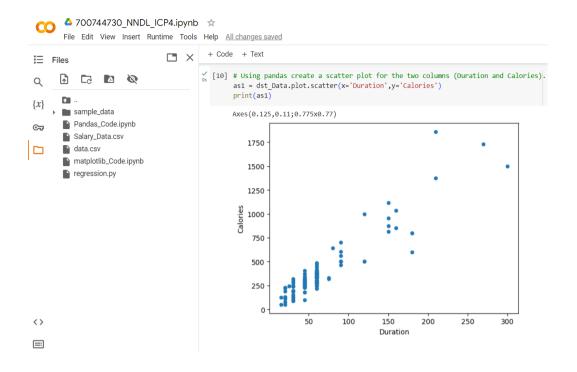
- e. Filter the dataframe to select the rows with calories values between 500 and 1000.
- f. Filter the dataframe to select the rows with calories values > 500 and pulse.



k. Using pandas create a scatter plot for the two columns (Duration and Calories).

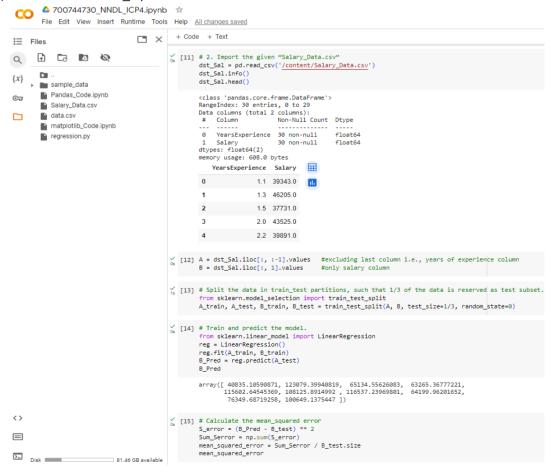
## Example



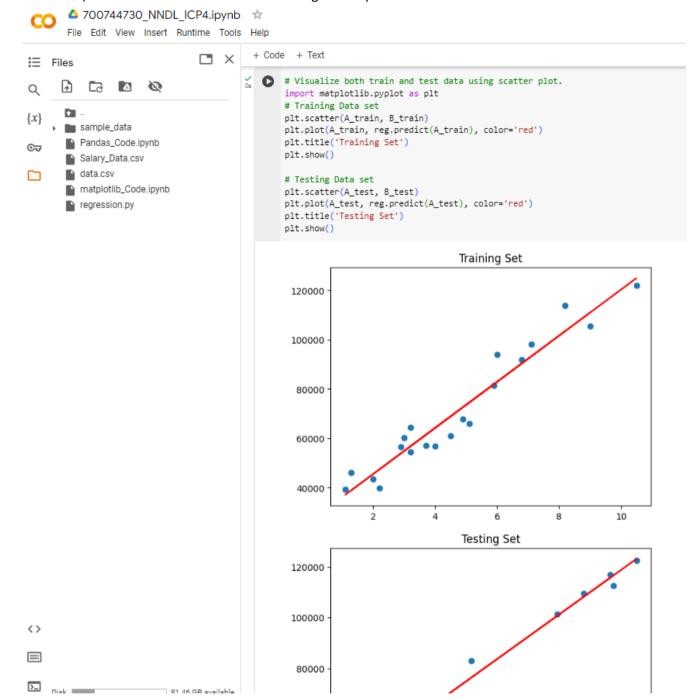


### 2. Linear Regression

- a) Import the given "Salary\_Data.csv"
- b) Split the data in train test partitions, such that 1/3 of the data is reserved as test subset.
- c) Train and predict the model.
- d) Calculate the mean\_squared error



# e) Visualize both train and test data using scatter plot.



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81.46 GB available