

Course Name: Machine Learning

Course Code: CAP 781

Lab Evaluation: 1

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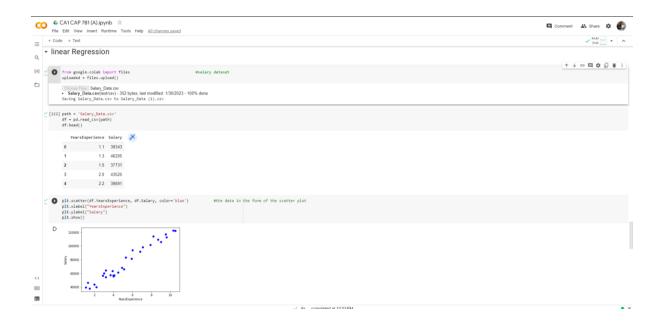
Paper Code: A

Que. 1: Apply following operations on Salary dataset.

- 1. Plot the outputs with respect to input and identify that the dataset is linear or nonlinear.
- 2. Print Maximum, minimum, and average Salaries.

1.

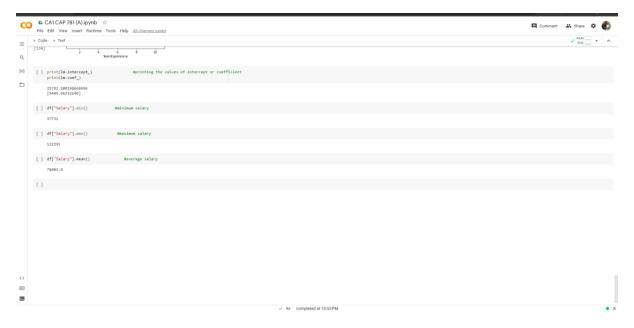
- Importing the Salary dataset and the input in the experience or output is the salary.
- After importing plotted the scattered graph and finding that data is scattered in one direction.
- Here, we can say that dataset is linear.



- Initially imported a file named linear regression from inbuilt library SKLEARN for finding the best possible solution.
- Assigned the variable to the input data or output data and after we fitted the linear model.
- Then, calculated intercept and coefficient of the dataset
- Then after writing the suitable lines of code the best fitted line for the Salary dataset is plotted into the graph

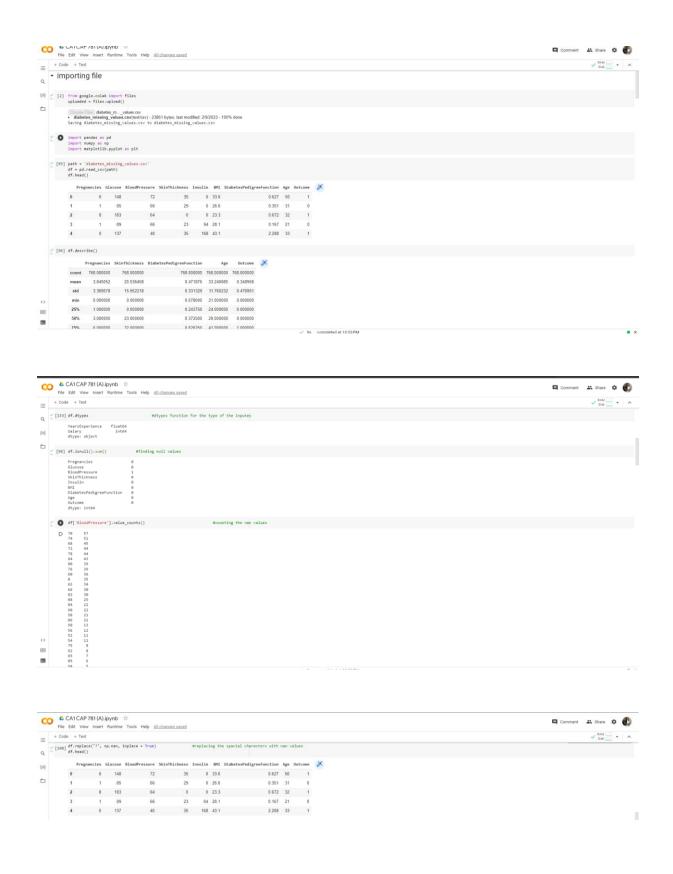


2. Printing the maximum, minimum and average salary.



Que. 2. Identify the missing values from diabetes dataset and take the appropriate actions against missing values. Also identify the first three highly correlated columns with the outcome column.

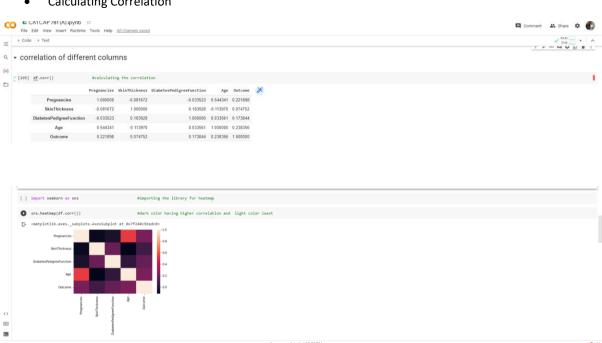
• For missing values using the isnull method and for special symbols using replace function



For deleting using the dropna function



Calculating Correlation



Que.3. Normalize diabetes dataset using minmax and feature scaling methods.

Normalizing the dataset using Feature scaling and minmax method.

