



Experiment Number

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Branch :: CSE - IoT Sec/Grp :: 1/A

Semester :: 6th Date :: 14th Mar, 2022

Subject :: ML Lab CODE :: CSD-386

1. Aim:

To implement the logistic regression on the given data set and tune the model with the appropriate selection of of solver.

- DATA-SET LINK: https://www.kaggle.com/dinaouahbi/churndatacsv

2. Task:

1. Customer churn with Logistic Regression: A telecommunications company is concerned about the number of customers leaving their land-line business for cable competitors. They need to understand who is leaving. Imagine that you're an analyst at this company and you have to find out who is leaving and why.

3. Algorithm:

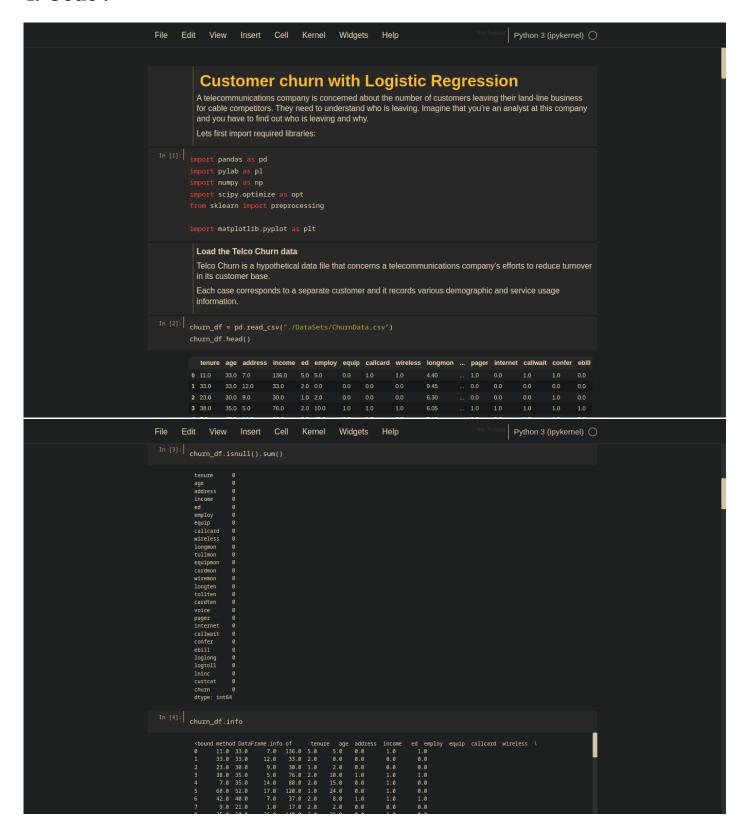
- Import required Libraries
- Load the Telco Churn Data
- Data pre-processing and selection
- Training and Testing
- Confussion Matrix







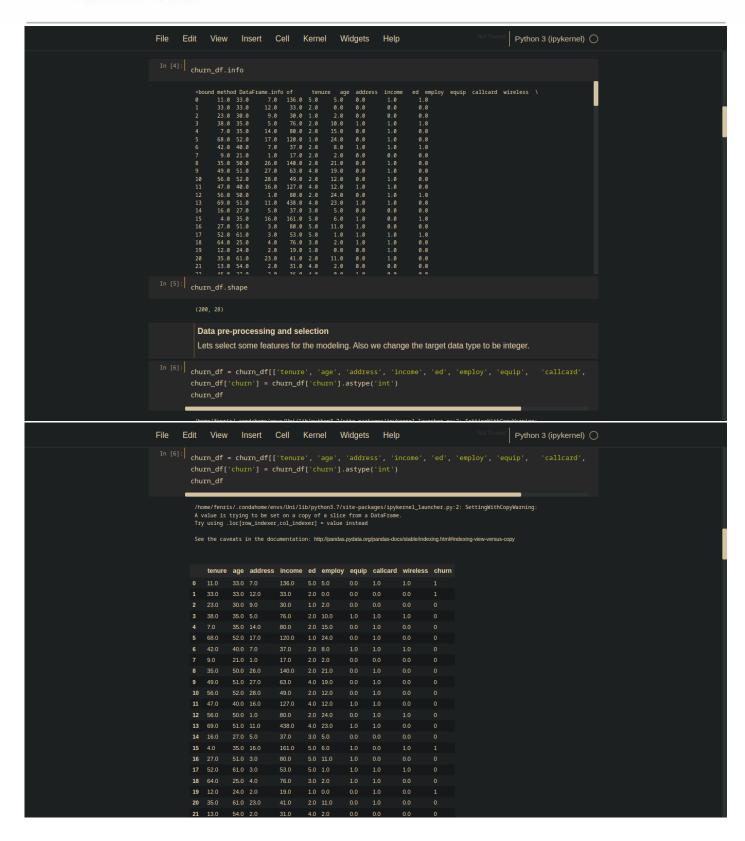
4. Code:







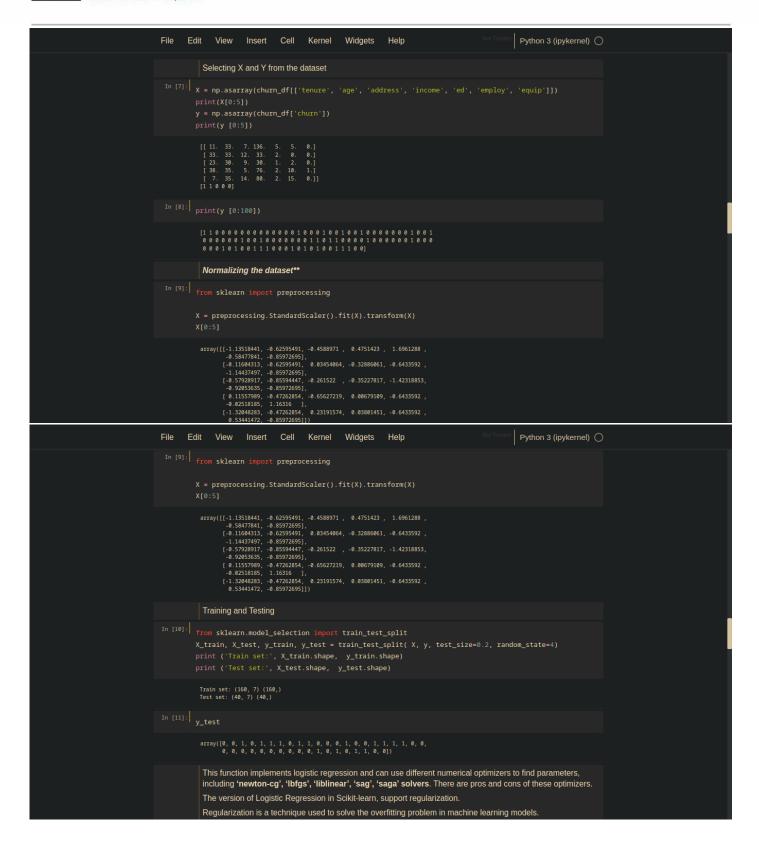








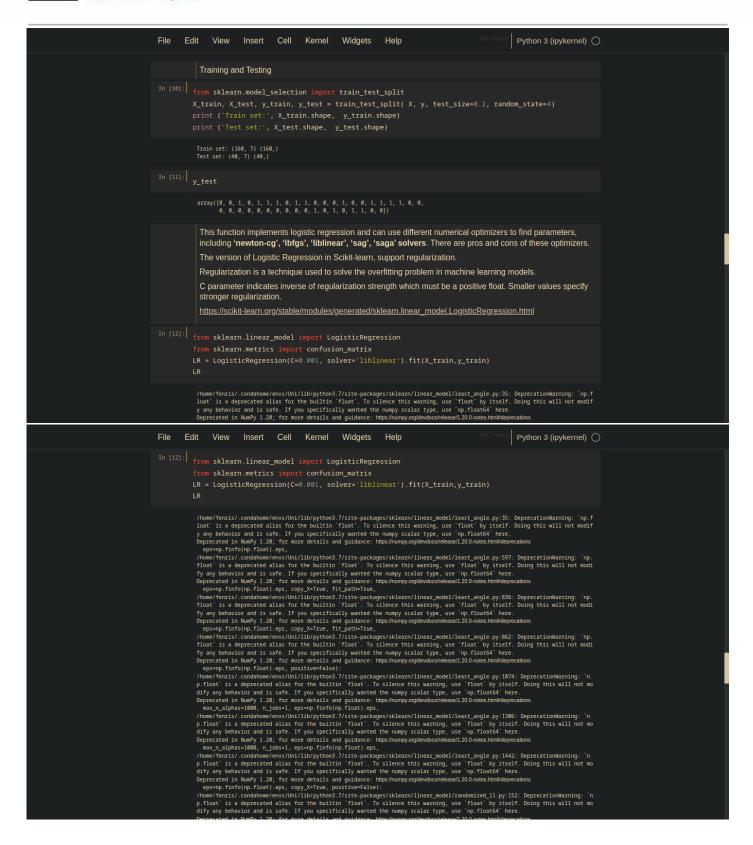
















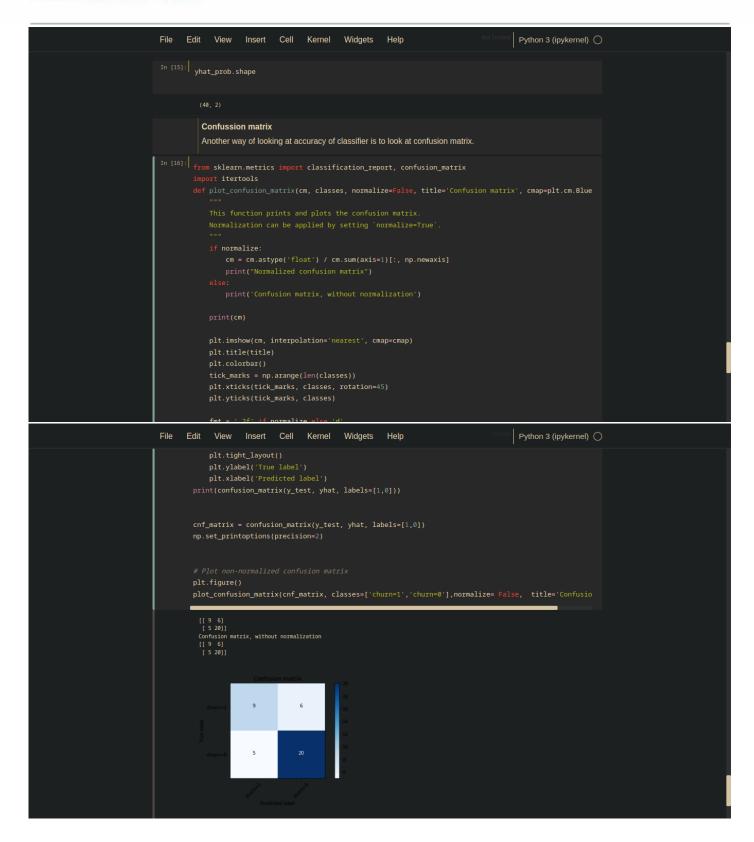








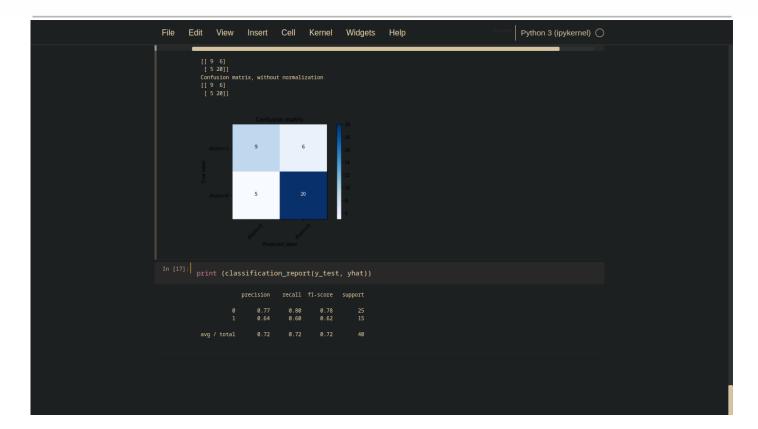










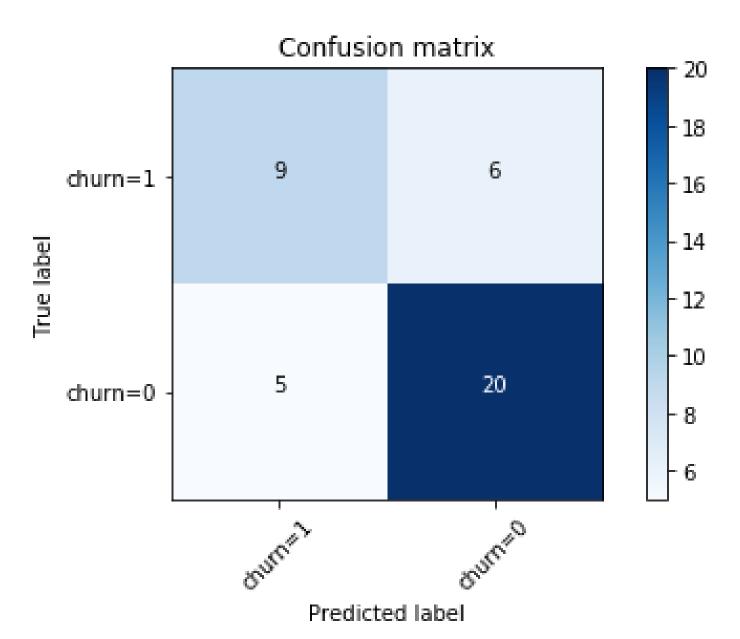








5. Observations:







Learning Outcomes:

- Logistic Regression.
- Tuning the model with the appropriate selection of of solver.
- I have learnt about EDA
- I have learnt about Data pre-processing and selection
- I have learnt about Training and Testing
- I have learnt about missing value analysis
- I have learnt Confussion Matrix.

S. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

