## LOGISTIC REGRESSION RESUT FOR PERSONAL LOAN DATASET:

## STEPS:

- 1. Import pandas package.
- 2. Loading the dataset.



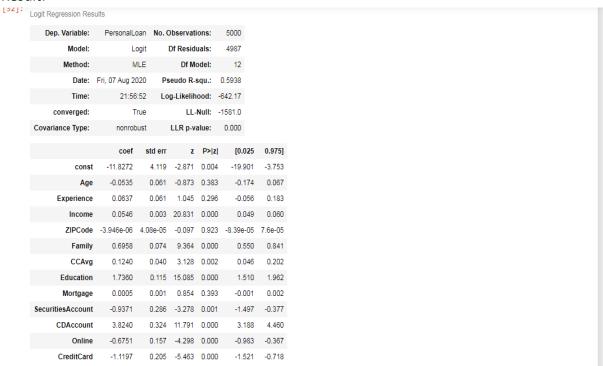
- 3. Assigning dependent variable as "Personal Loan" and all other significant columns as independent variables.
- 4. Import statistical model and adding constants to dependent variable.

import statsmodels.api as sm
x1=sm.add\_constant(x)

5. Applying logistic regression formula using "Logit" method and optimizing the result.

log=sm.Logit(y,x1) result=log.fit()

## 6. Result:



As we can observe the p value for the following is less than 0.05 which means they are significant attributes.

- 1. Income
- 2. Family
- 3. CC Average
- 4. Education
- 5. Securities Account
- 6. CD Account
- 7. Online
- 8. Credit Card