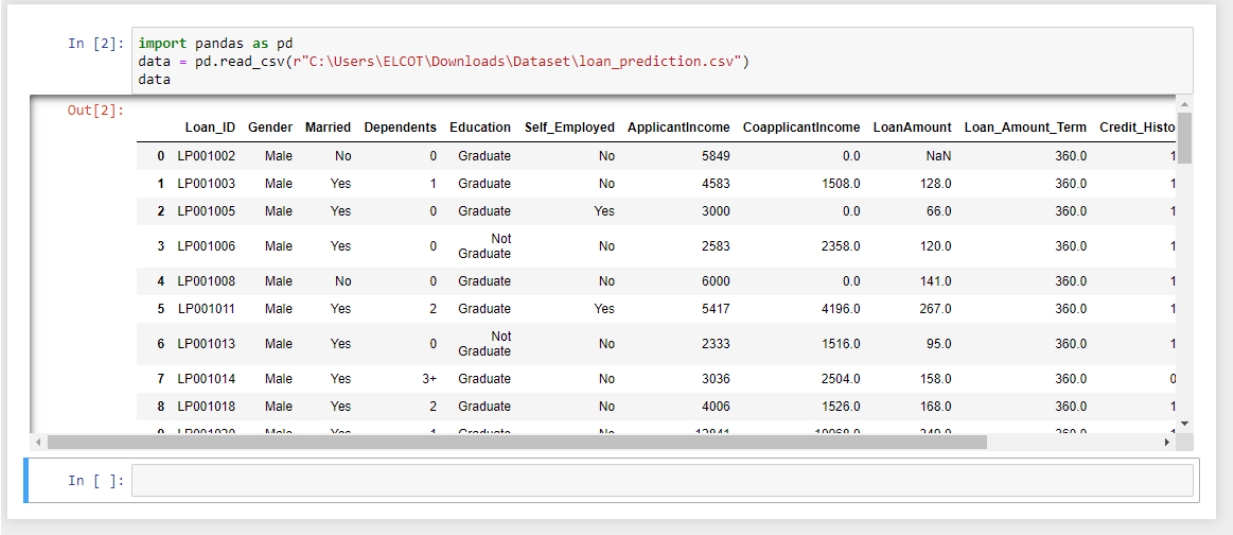
# Visualizing And Analyzing The Data

# Reading The Dataset

| | |
|---|---|
| **Date** | **6 Nov 2022** |
| **Team Id** | **PNT2022TMID41056** |
| **Project Name** | **Smart Lender- Applicant CredibilityPrediction for Loan Approval** |

- Our dataset format might be in .csv, excel files, .txt, .json, etc. We can read the dataset with the help of pandas.

- In pandas, we have a function called read_csv() to read the dataset. As a parameter, we have to give the directory of the CSV file.



```
In [2]: import pandas as pd
        data = pd.read_csv(r"C:\Users\ELCOT\Downloads\Dataset\loan_prediction.csv")
        data
```

Out[2]:

| | Loan_ID | Gender | Married | Dependents | Education | Self_Employed | ApplicantIncome | CoapplicantIncome | LoanAmount | Loan_Amount_Term | Credit_Histo |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | LP001002 | Male | No | 0 | Graduate | No | 5849 | 0.0 | NaN | 360.0 | 1 |
| 1 | LP001003 | Male | Yes | 1 | Graduate | No | 4583 | 1508.0 | 128.0 | 360.0 | 1 |
| 2 | LP001005 | Male | Yes | 0 | Graduate | Yes | 3000 | 0.0 | 66.0 | 360.0 | 1 |
| 3 | LP001006 | Male | Yes | 0 | Not Graduate | No | 2583 | 2358.0 | 120.0 | 360.0 | 1 |
| 4 | LP001008 | Male | No | 0 | Graduate | No | 6000 | 0.0 | 141.0 | 360.0 | 1 |
| 5 | LP001011 | Male | Yes | 2 | Graduate | Yes | 5417 | 4196.0 | 267.0 | 360.0 | 1 |
| 6 | LP001013 | Male | Yes | 0 | Not Graduate | No | 2333 | 1516.0 | 95.0 | 360.0 | 1 |
| 7 | LP001014 | Male | Yes | 3+ | Graduate | No | 3036 | 2504.0 | 158.0 | 360.0 | 0 |
| 8 | LP001018 | Male | Yes | 2 | Graduate | No | 4006 | 1526.0 | 168.0 | 360.0 | 1 |

```
In [ ]:
```