

# Visualizing And Analyzing The Data

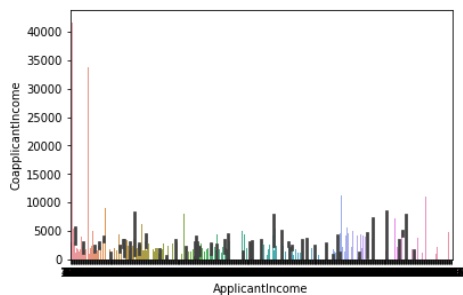
## Bivariate Analysis

Date	7 November 2022
Team Id	PNT2022TMID10172
Project Name	Smart Lender- Applicant Credibility Prediction for Loan Approval

Count plot:-

A count plot can be thought of as a histogram across a categorical, instead of a quantitative, variable. The basic API and options are identical to those for `barplot()`, so you can compare counts across nested variables.

```
In [4]: sns.barplot(data['ApplicantIncome'], data['CoapplicantIncome'])  
Out[4]: <matplotlib.axes._subplots.AxesSubplot at 0x257d5474eb8>
```



From the above graph, we can infer the analysis such as

- Segmenting the gender column and married column based on bar graphs
- Segmenting the Education and Self-employed based on bar graphs, for drawing insights such as educated people are employed.
- The loan amount term is based on the property area of a person holding