# CREDIT EDA ASSIGNMENT(APPLICATION\_DATA)

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# **Business Understanding**

The loan providing companies find it hard to give loans to the people due to their insufficient or non-existent credit history. Because of that, some consumers use it as their advantage by becoming a defaulter Suppose you work for a consumer finance company which specialises in lending various types of loans to urban customers. I have to use EDA to analyse the patterns present in the data. This will ensure that the applicants capable of repaying the loan are not rejected.

When the company receives a loan application, the company has to decide for loan approval based on the applicant's profile. Two types of risks are associated with the bank's decision:

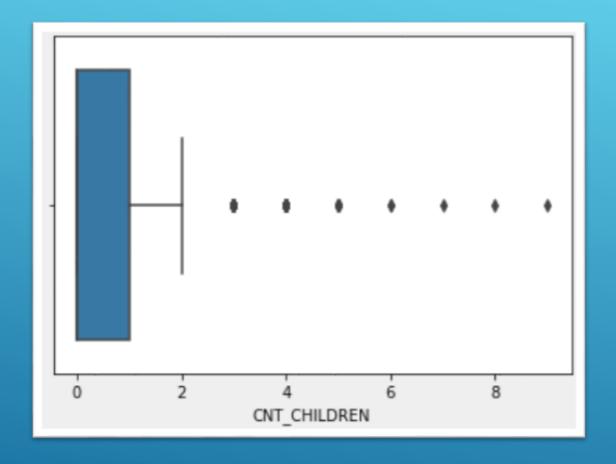
If the applicant is likely to repay the loan, then not approving the loan results in a loss of business to the company

If the applicant is not likely to repay the loan, i.e. he/she is likely to default, then approving the loan may lead to a financial loss for the company.

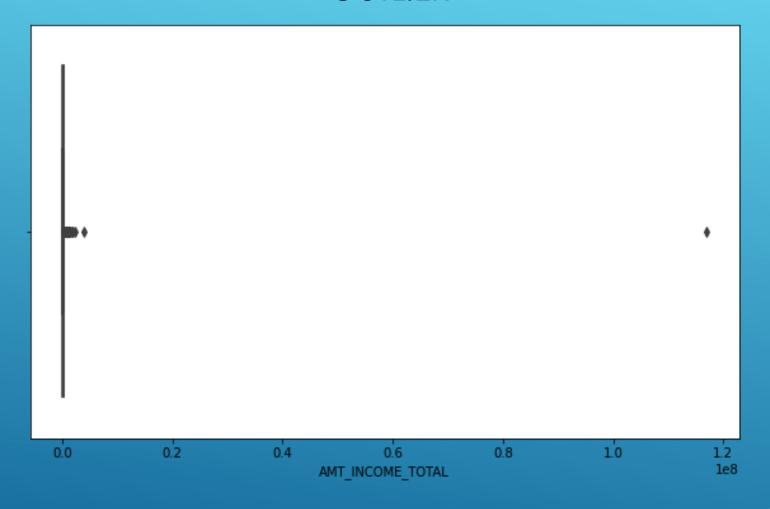
# **Business Objective**

This case study identifies the defaulter and the non defaulter by the variable given in the data set So as the fresher I have done the analysis and tried my best to give the output according to the variable

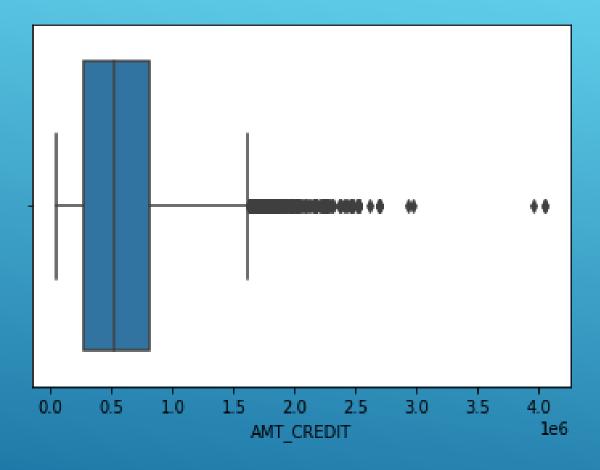
From these plots and graph so the company can identify the defaulters and non defaulters can defend themselves from the loss



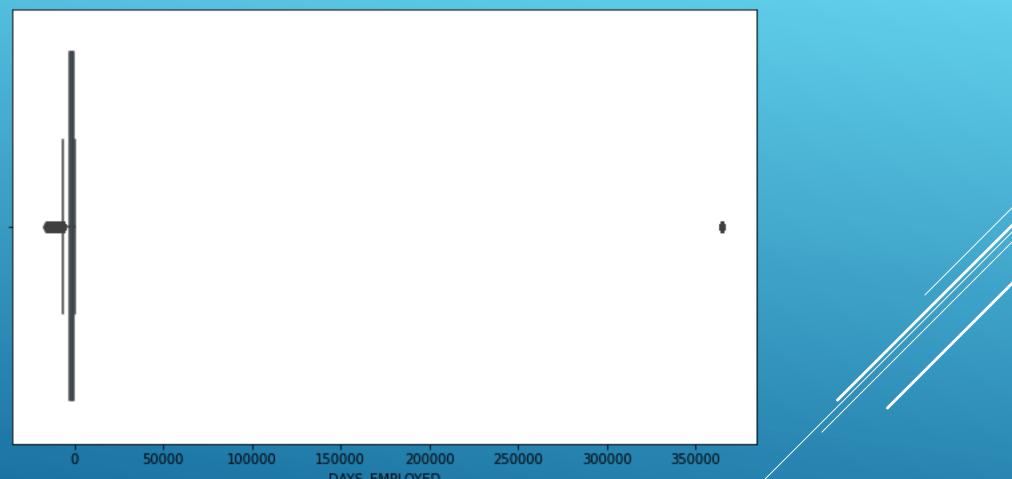
Here we have taken the outlier of number or children by plotting the blot box



checking the oilier for Income of the client by plotting plotbox



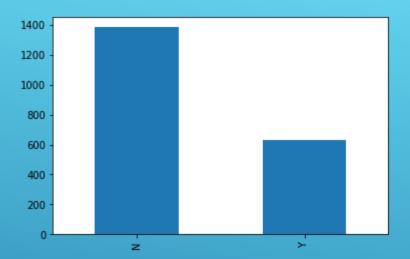
Checking the outlier in Credit amount of the loan by plotting the plot box

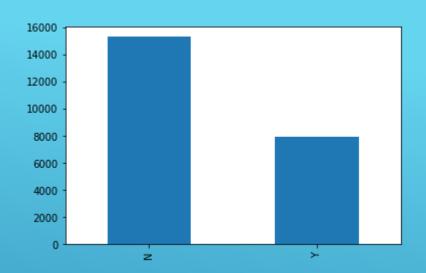


checking the outliers of How many days before the application the person started current employment By plotting the plotbox



So here we use univaraite analysis between gender in defaulter and non defaulter by using piechart In left it is defaulter where females are more defaulter In right it is non defaulter where females are more non defaulter





Defaulter vs NON Defaulter who own car and who don't own car

For the left side who are defaulters

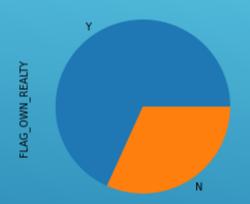
### 1st insighnt-who dont own car are more defaulter

## 2nd insight who own car are less defaulter

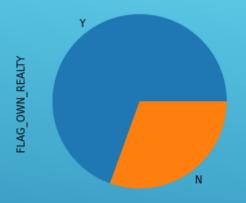
For the Right side who are defaulters

## who dont own car are more non defaulter

### who own care are less less non defaulters



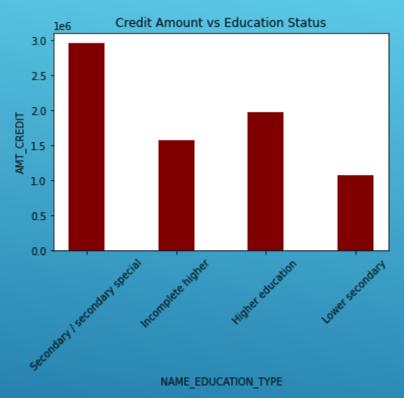
less than who dont own flat

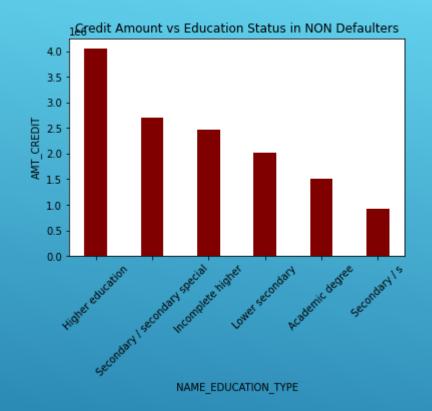


Defaulters vs non defaulter who own home, flat or who live in rent

In the left side image so we can say that here who own flats are more defaulter less than who dont own flat In the right we are getting the same picture for non defaulters so we can say that here who own flats or house are more non defaulter

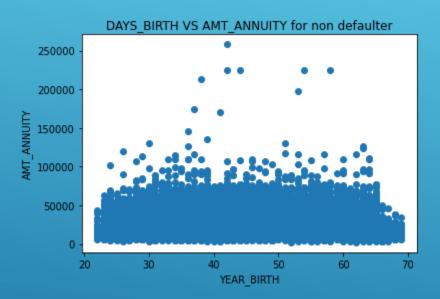
#### **BIVARIATE ANALYSIS**

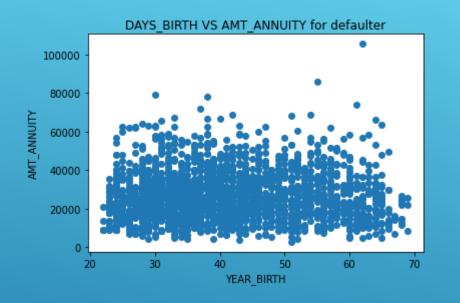




**EDUCATION VS AMT IN Defaulters** 

In this found that secondary people whose credit amount is high are more defaulters on the left side image
In this plot we can say that who is higher education which have high credit amount are good customer bank can target the

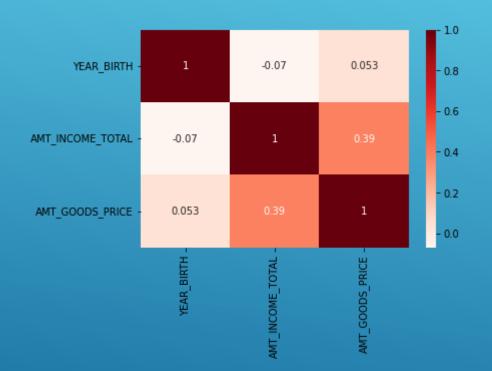


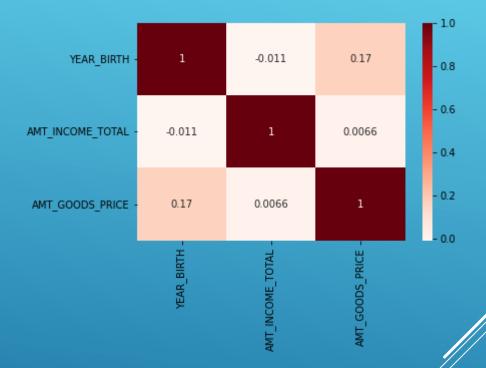


DAYS\_BIRTH VS AMT\_ANNUITY

for non defaulter in left side we can say that whose age 22 to 68 and there ammount ammunity are 60000 to 100000

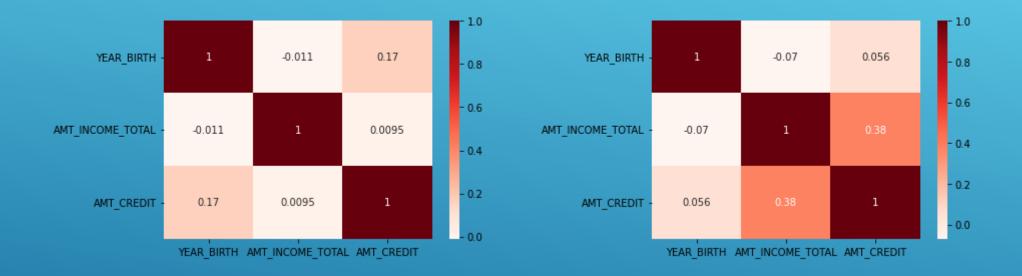
for defaulter in right side we can say that variation in these defaulter age between 24 to 69 and amount amunity variation between 5,000 to 63000





In the left side Corelation "YEAR\_BIRTH" VS 'AMT\_INCOME\_TOTAL' vs 'AMT\_GOODS\_PRICE' for non defaulters

In the Right side corelation "YEAR\_BIRTH" VS 'AMT\_INCOME\_TOTAL' vs 'AMT\_GOODS\_PRICE' for defaulters



In the right side quantify using corealtion for the defaulters in the left side for defaulters. In the left side quantify using corealtion for the defaulters in the left side for nondefaulters.

#### CONCLUSION

So In this cas study Credit EDA we have use different steps and different plots to get better understanding

Of the Business to whom and where the loan providing companies should target the

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And non defaulter