Previous Application Data Analysis

Problem statement

• Final credit amount differs with the client application amount.

Assumptions

- The data has 1670214 row entries and 37 columns to be analyzing.
- After over through with the data, it has a huge amount of null value.

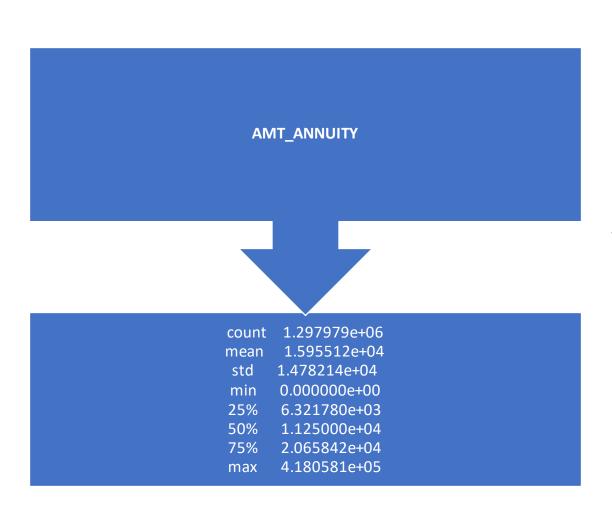
Over approach

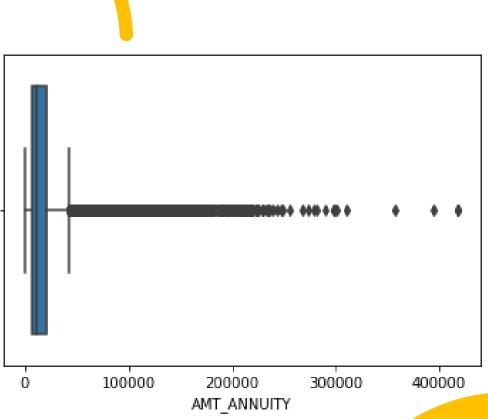
- First collect the data as csv file format and save it.
- Then load the data to Jupyter notebook for analyzing.
- After load the data cleaning is the most import process has to be done.
- The Null values has to be deleted before starting the analyzing process.
- The analyzing done through Univariate Analysis, Bivariate Analysis and Multivariate Analysis step by step.

Over all approach

- The data holds 1670214 rows entries and 37 columns.
- After cleaning the data(dropping the null values) 1670214 number of rows and 26 columns left.
- More than 10 columns holds more than 40% of null values.

Relevant result with graphs





AMT_APPLICATION

count 1.670214e+06

mean 1.752339e+05

std 2.927798e+05

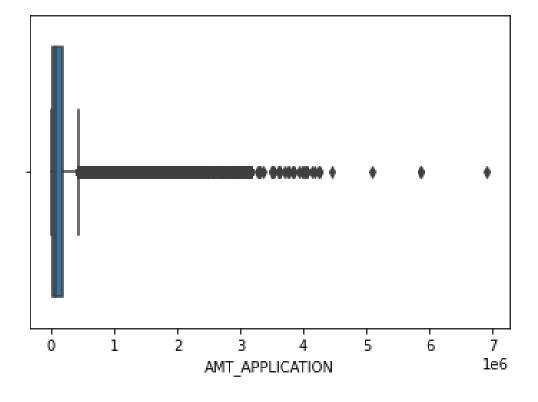
min 0.000000e+00

25% 1.872000e+04

50% 7.104600e+04

75% 1.803600e+05

max 6.905160e+06



AMT_CREDIT

count 1.670213e+06

mean 1.961140e+05

std 3.185746e+05

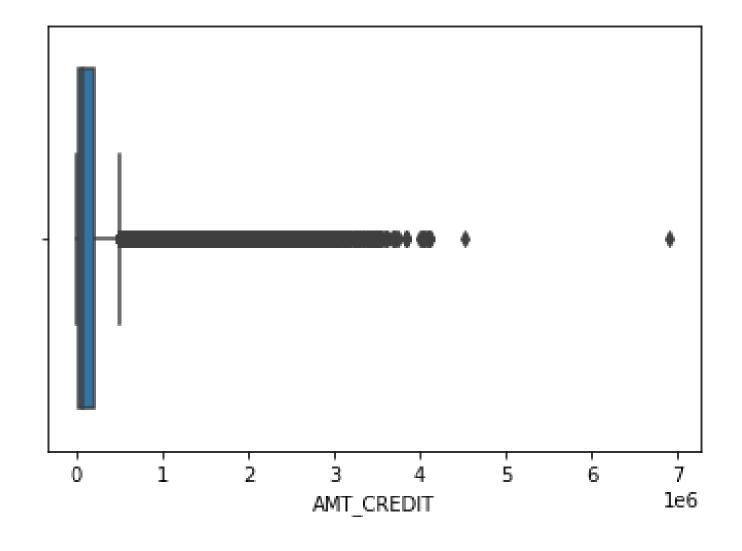
min 0.000000e+00

25% 2.416050e+04

50% 8.054100e+04

75% 2.164185e+05

max 6.905160e+06



AMT_GOODS_PRICE

count 1.284699e+06

mean 2.278473e+05

std 3.153966e+05

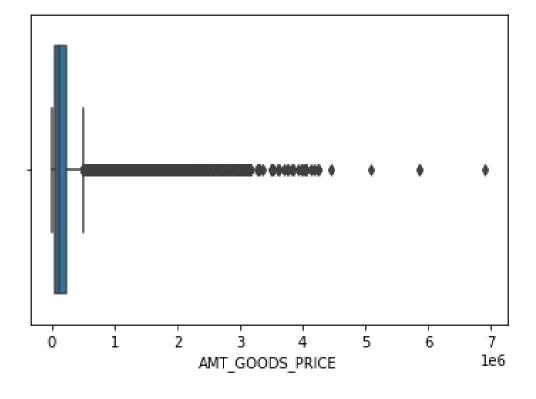
min 0.000000e+00

25% 5.084100e+04

50% 1.123200e+05

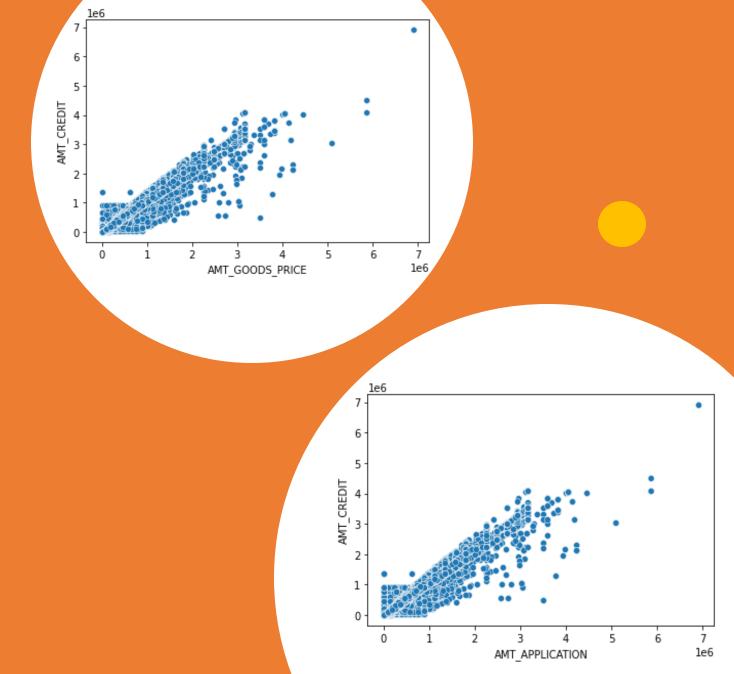
75% 2.340000e+05

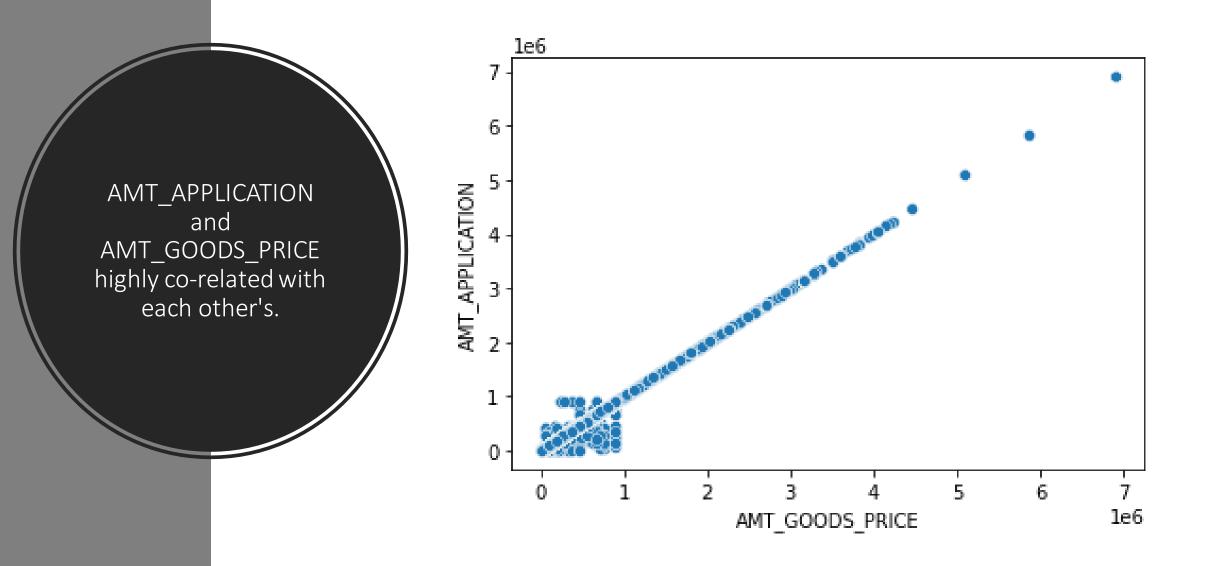
max 6.905160e+06



AMT_CREDIT and AMT_GOODS_PRICE are positive co-related with each other's.

AMT_CREDIT and AMT_APPLICATION are positive co-related with each other's.

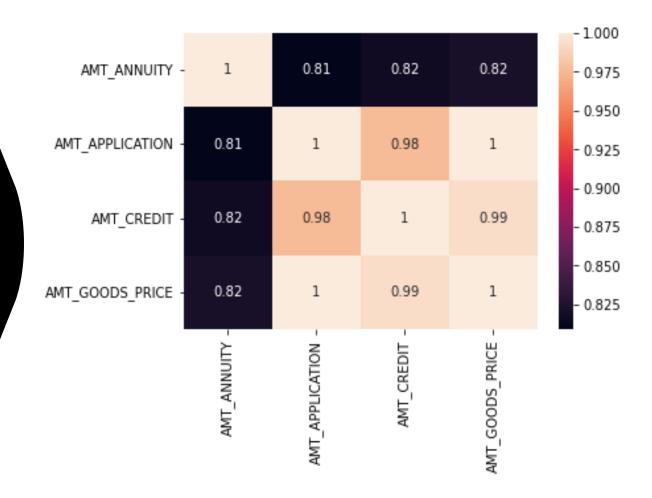




Multivariate analysis

- AMT_ANNUTY
- AMT_APPLICATION
- AMT_CREDIT
- AMT_GOODS_PRICE

Accept AMT_ANNUITY other 3 columns are highly co-related with each other's.



Conclusion and Recommendation

- AMT_APPLICATION, AMT_CREDIT and AMT_GOODS_PRICE are highly co-related with each other's.
- Other columns also have some linear corelation with this three columns.

