

# Bank Loan Case Study Final Project-2













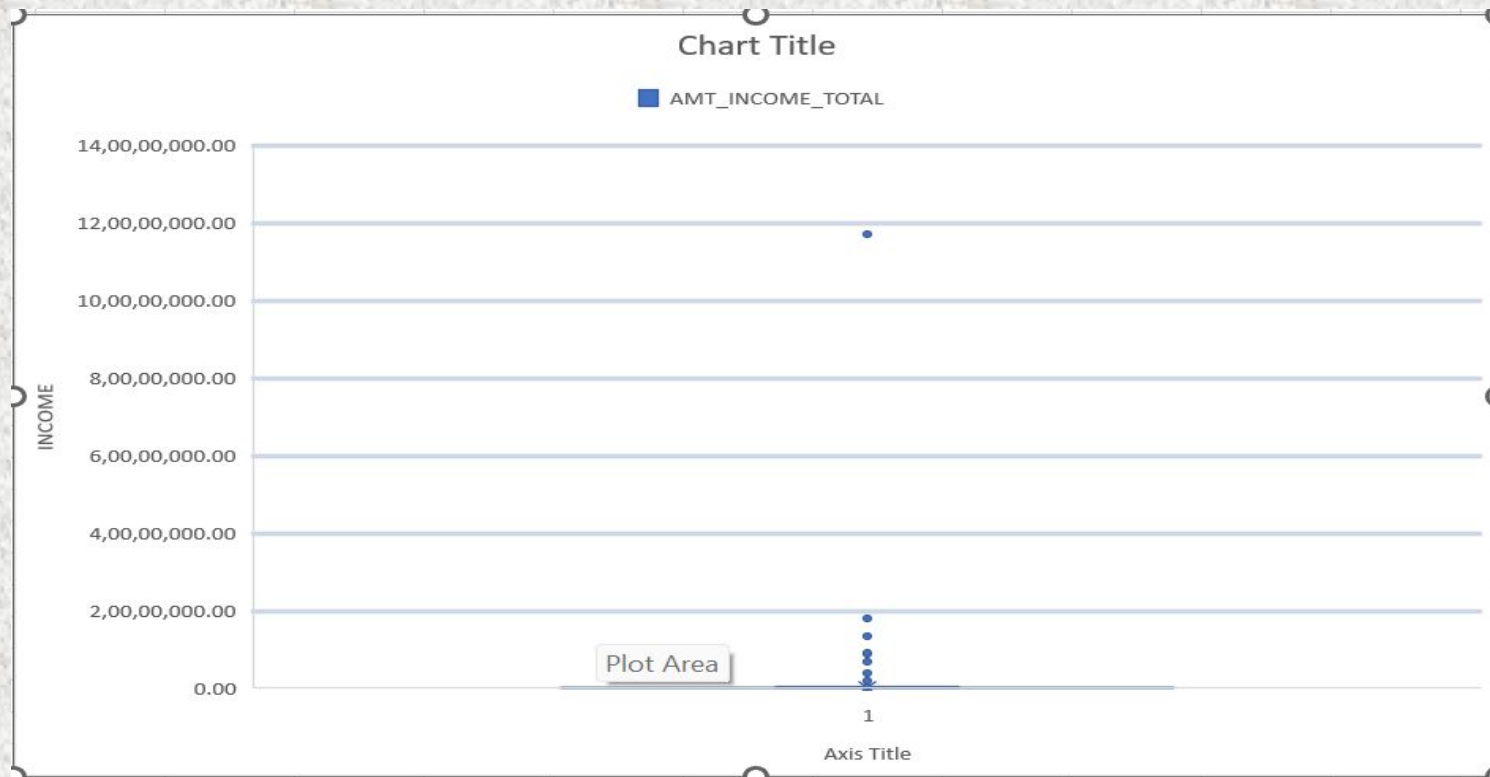


# Identify if there are **outliers** in the dataset

- an outlier is a value or point that differs significantly from the rest of the data in a dataset.
- Here you can see the outliers in amount of income and credit

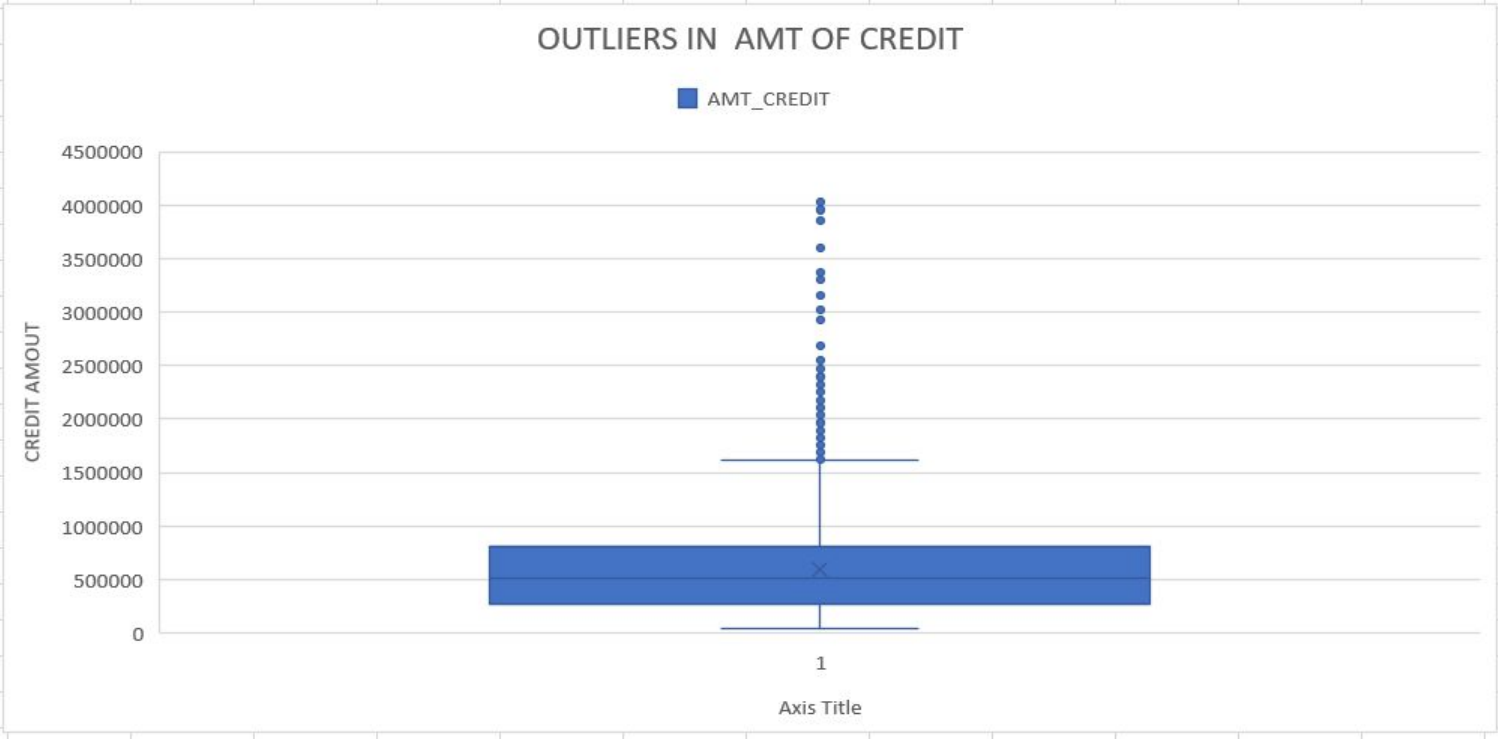
MIN OF INCOME	25650
Q1 OF INCOME	112500
MEDIAN	147150
Q3 OF INCOME	202500
MAX OF INCOME	117000000
MEAN	168797.92
IQR	90000
LOWER LIMIT	-22500
UPPER LIMIT	337500

- The data points which are out of lower limit and upper limit are outliers





MIN OF CREDIT	45000
Q1 OF CREDIT	270000
MEDIAN	513531
Q3 OF CREDIT	808650
MAX OF CREDIT	4050000
MEAN	599026
IQR	538650
LOWER LIMIT	-537975
UPPER LIMIT	1616625



# Identify if there is data imbalance in the data. Find the ratio of data imbalance.

Owning a house implies having the lones .

The ratio of having imbalance according to owning an house is 2:1

count of yes	213312
count of no	94199
total count	307511
yes/total count	0.693672747
no/total count	0.306327253
ratio	02:01

# Explain the **results of univariate, segmented univariate, bivariate analysis, etc.** in business terms

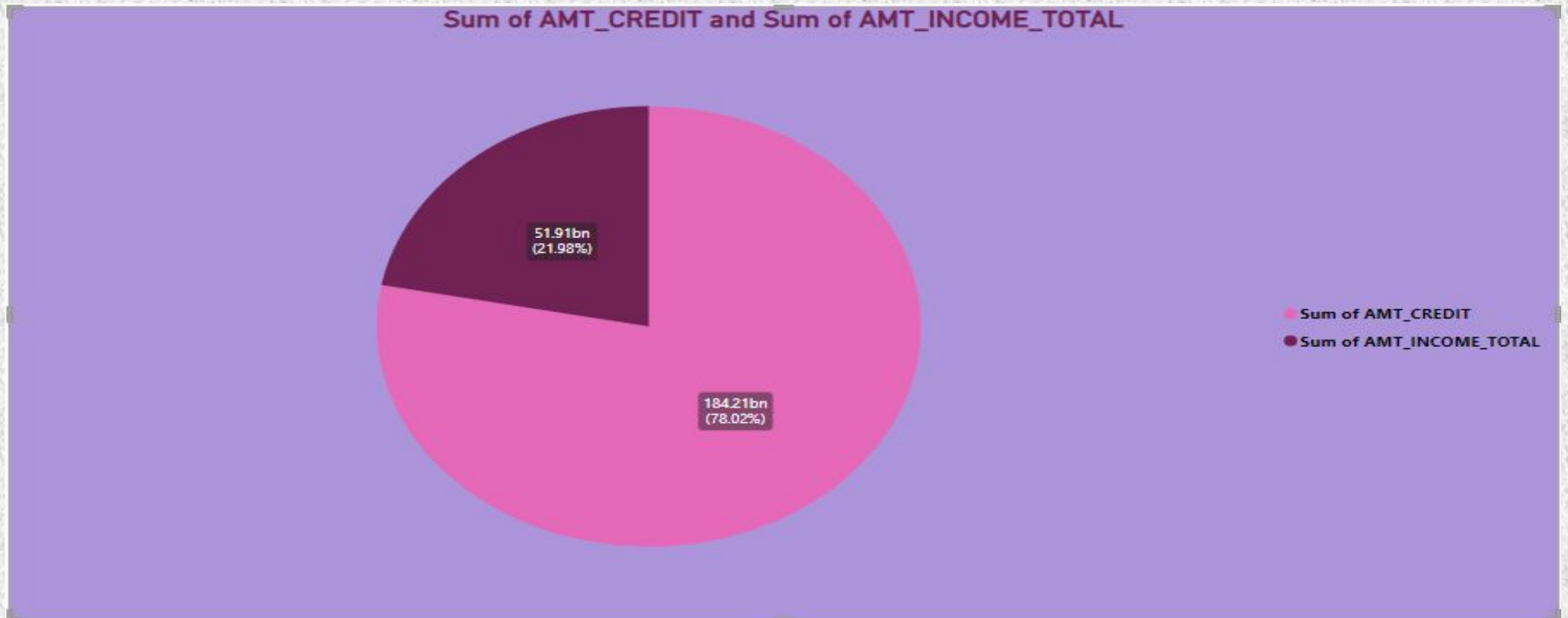
1. Univariate analysis is a data analysis technique that focuses on a single variable and aims to understand its distribution and patterns within a dataset.
2. Segmented univariate analysis involves analyzing a dataset by dividing it into segments based on some factor, to explore variations within different segments of the data.
3. Bivariate analysis involves analyzing two variables in relation to each other to understand any patterns or relationships between them.







**Include visualizations and summarize the most important results in the presentation.**





Sum of AMT\_CREDIT by OCCUPATION\_TYPE

