Introduction

OBJECTIVE: Applicants capable of repaying the loan are not rejected

- Insights from Data Analysis
 - Driver variables behind loan default
 - Driver variables applicable conditions for approval

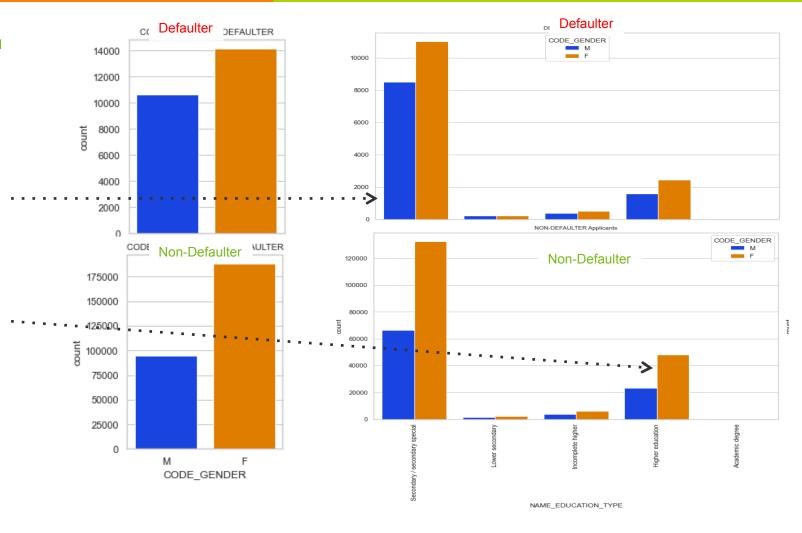
- · Driver variables behind loan default
- Driver variables applicable conditions for approval

CODE_GENDER

Defaulter Applicant

- Male have higher probability of defaulting
- Male with Secondary/ Secondary special education are more likely to default

- Female with Higher education are more likely to not default
- Male with Academic degree has higher probability of non default



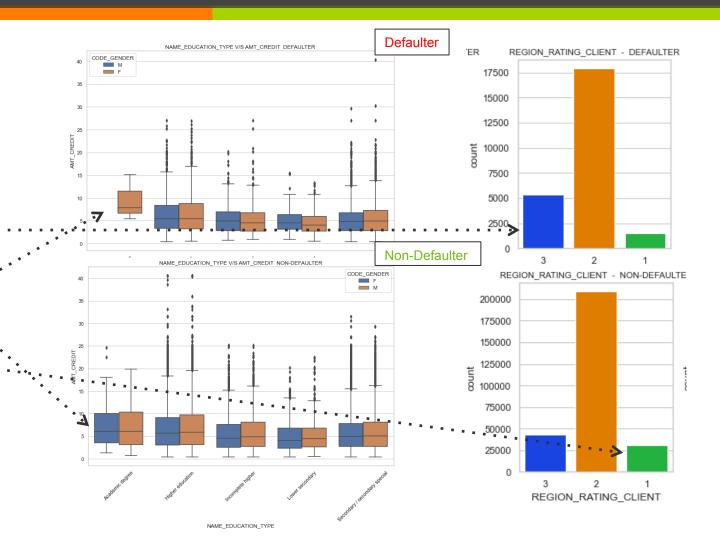
- Driver variables behind loan default
- Driver variables applicable conditions for approval

CODE_GENDER & REGION_RATING_CLIENT

Defaulter Applicant

Region 3 applicants have high default rate

- Male with Academic degree has higher probability of non default
- Region 1 has lower probability of default



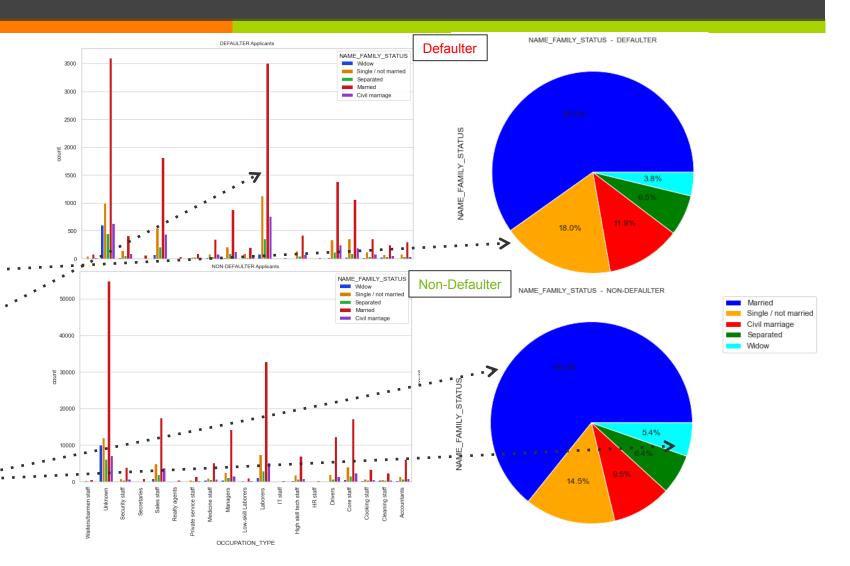
- · Driver variables behind loan default
- Driver variables applicable conditions for approval

NAME_FAMILY_STATUS

Defaulter Applicant

- Applicant living with Parents and rented apartments have high probability of default
- Single/not Married are more likely to default
- Laborer are high on default (particularly Single(not married) & married)

- People living in Office apartment has lower probability of default
- b. Married/ Widow are comparatively non-defaulter



- Driver variables behind loan default
- Driver variables applicable conditions for approval

AGE_RANGE & YEARS_EMPLOYMENT_RANGE

Defaulter Applicant

 Applicants from 25-40 age group are likely to default

- Applicants with age 50 years and above are less likely to default
- Applicants with 30years and above years of employment are less likely to default



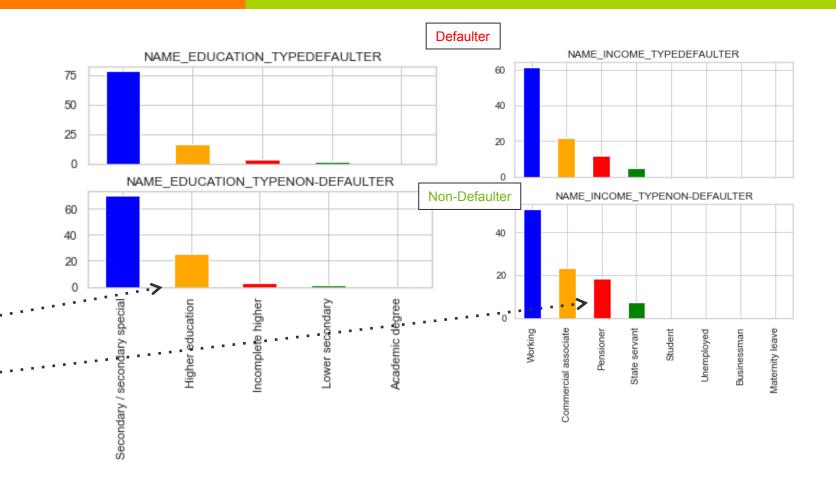
- Driver variables behind loan default
- Driver variables applicable conditions for approval

NAME_EDUCATION_TYPE & NAME_INCOME_TYPE

Defaulter Applicant

 Lower secondary higher chance of default (particularly if they are Married/ Widow)

- Applicants with Higher education are likely non-defaulter (particularly married)
- Pensioner are less likely to default



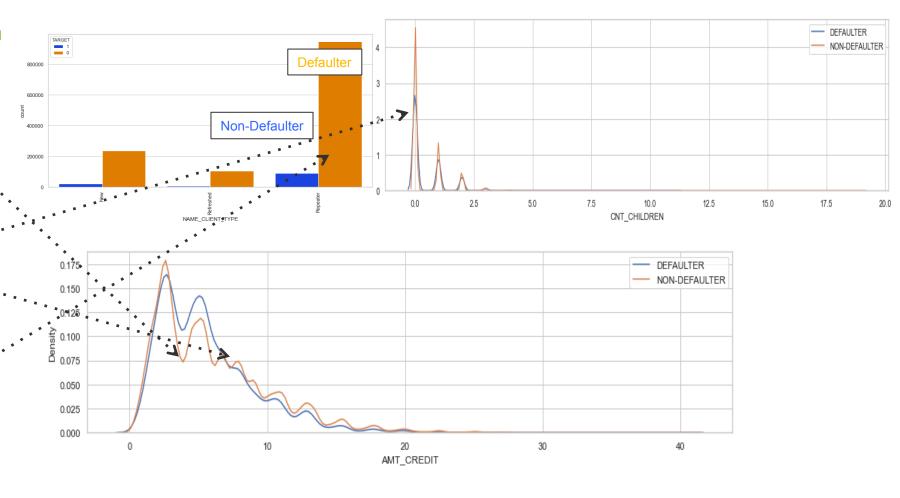
- Driver variables behind loan default
- Driver variables applicable conditions for approval

AMT_CREDIT & CNT_CHILDREN

Defaulter Applicant

 Applicants with AMT_CREDIT between 2.5 & 6.5 lakhs are likely to default

- Applicants with no child, have low default rate
- Applicants with AMT_CREDIT greater than 7 lakhs are less likely to default
- Repeater applicants are less likely to default



Insights - Summary

1] CODE_GENDER

Defaulter Applicant

- a. Male have higher probability of defaulting
- b. Particularly avoid unemployed males
- c. Male with Secondary/ Secondary special education are more likely to default Non-Defaulter Applicant
- a. Male with Academic degree has higher probability of non default
- b. Female with Higher education are more likely to not default

2] NAME_FAMILY_STATUS

Defaulter Applicant

- a. Applicant living with Parents and rented apartments have high probability of default
- b. Single/not Married are more likely to default

Non-Defaulter Applicant

- a. People living in Office apartment has lower probability of default
- b. Married/ Widow are comparatively non-defaulter

3] NAME_EDUCATION_TYPE

Defaulter Applicant

 a. Lower secondary higher chance of default (particularly if they are Married/ Widow)

Non-Defaulter Applicant

a. Applicants with Higher education are likely non-defaulter (particularly married)

4] NAME_INCOME_TYPE

Non-Defaulter Applicant

a. Pensioner are less likely to default

5] REGION_RATING_CLIENT

Defaulter Applicant

a. Region 3 applicants have high default rate

Non-Defaulter Applicant

a. Region 1 has low probability of default

6] OCCUPATION_TYPE

Defaulter Applicant

a. Labourer are high on default (particularly Single(not married) & married)

Non-Defaulter Applicant

a. Accoutants(Married) have high probability of non-defaulter

7] AGE_RANGE

Defaulter Applicant

a. Applicants from 25-40 age group are likely to default

Non-Defaulter Applicant

a. Applicants with age 50 years and above are less likely to default

8] YEARS EMPLOYMENT RANGE

Defaulter Applicant

a. Applicants with 0-5 years of employment have high probability of default Non-Defaulter Applicant

a. Applicants with 30years and above years of employment are less likely to default

9] AMT INCOME RANGE

- a. Applicants with income less than 300,000 have high probability of default Non-Defaulter Applicant
- a. Applicants with more than 700,000 of income are less likely to default

Insights - Summary

10] AMT_CREDIT

Defaulter Applicant

a. Applicants with AMT_CREDIT between 2.5 & 6.5 lakhs are likely to default Non-Defaulter Applicant

a. Applicants with AMT_CREDIT greater than 7 lakhs are less likely to default

11] AMT_GOODS_PRICE

Defaulter Applicant

a. Applicants with AMT GOODS PRICE between ~2.5 & ~5.5 have more default rate

12] CNT CHILDREN

Non-Defaulter Applicant

a. Applicants with no child ,have low default rate

13] ORGANISATION_TYPE

Defaulter Applicant <

a. Self employed and don't own a car have high defaulting probability

14] CASH_LOAN_PURPOSE

Defaulter Applicant

a. Loan default percentage for Repairs is high

- a. Loan applicant for buying a Garage is less likely to default
- 15] Repeater applicants are less likely to default
- 16] Refusal of loan for New Car and Repairs are high. Bank can increase the rate of interest/ reduce the loan credit to increase Approval of the same