# Virtual Internship Experience ID/X Partners

### Rekamin Academy

# **Business Understanding**

### **Analytical Approach**

## Data recuirements & collection

#### **Data understanding**

### Data preparation

# Exploratory data analysis

Modeling & evaluation

- Credit risk refers to the potential of a borrower's inability to repay a loan, which can adversely impact the lender's financial well-being.
- Descriptive analysis
- Graph analysis
- Predictive modelling (classification)
- Require a dataset of customer loans from a financial company.
- The dataset was collected by ID/X Partners on behalf of the company.
- · Dataset has 74 columns / features
- consist of 52 numerical & 22 nonnumerical features
- · many features have missing values
- · ther are 17 null features
- Missing value: remove and imputing
- feature engineering: categorical encoding, log transform, standardization
- feature selection: using corellation analysis
- good loan (1): fully paid, does not meet the credits policy, Status: fully paid
- bad load (0): charged off, does not meet the credit policy. status: Charged off, default, late (31-120 days)
- 70% Training & 30% testing
- used SMOTE for handling imbalance class
- · all steps are handled by pipeline

#### evaluation meticis:

 additon: ROC-AUC & Kolmogrov Smirnov (KS)