

Model Development Phase Template

Date	15 July 2024
Team ID	740144
Project Title	Loan Sanction Amount Prediction Data With ML
Maximum Marks	5 Marks

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Customer_ID	Unique identifier for each customer	No	For predicting the loan amount, a Customer ID is not required.
Name	Name of the applicant	No	Not relevant for prediction; does not impact loan sanction amount.
Gender	Applicant's gender	Yes	Relevant for assessing diversity and potential bias in loan sanction.
Age	Applicant's age	Yes	Age can impact financial stability and loan eligibility.
Income (USD)	Income of the applicant	Yes	Crucial in determining the applicant's financial capacity.
Income Stability	Stability of the applicant's income	Yes	Indicates the reliability of the applicant's income over time.

Profession	Applicant's profession	Yes	Profession can influence income stability and financial profile.
Type of Employment	Type of employment (e.g., salaried)	Yes	Different types of employment can affect financial stability.
Location	Residential location of the applicant	Yes	Location can influence living expenses and loan repayment ability.
Loan Amount Request (USD)	Amount of loan applied for	Yes	Fundamental for assessing the financial magnitude of the loan.
Current Loan Expenses (USD)	Current loan expenses of the applicant	Yes	Indicates existing financial obligations impacting loan capacity.
Expense Type 1	Type of primary expenses	Yes	Understanding expense types can help assess financial management.
Expense Type 2	Type of secondary expenses	Yes	Further insights into financial responsibilities.
Dependents	Number of dependents	Yes	Indicates financial responsibilities and influences loan capacity.
Credit Score	Credit score of the applicant	Yes	Reflects the applicant's creditworthiness, a major factor in loan approval.
No. of Defaults	Number of defaults by the applicant	Yes	Past defaults are critical in assessing loan risk.
Has Active Credit Card	Active credit card status	Yes	Indicates current credit utilization which affects financial stability.

Property ID	Unique identifier for the property	No	Not necessary for loan sanction prediction; used for property identification.
Property Age	Age of the property	Yes	Older properties might have different valuation impacts.
Property Type	Type of property	Yes	Property type can affect loan valuation and risk.
Property Location	Location of the property	Yes	Property location influences value and market stability.
Co-Applicant	Co-applicant status	Yes	Combined financial profiles provide a better assessment of loan capacity.
Property Price	Price of the property	Yes	Essential for evaluating the loan-to-value ratio.