

Model Development Phase Template

Date	20 June 2025
Team ID	SWTID1749791625
Project Title	Smart Lender- Applicant Credibility Prediction for Loan Approval
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
Loan_ID	Unique identifier for each loan applicant	No	Not required for prediction; serves only as an identifier
Gender	Applicant's gender	Yes	Useful for analyzing diversity and potential bias in loan approvals
Married	Marital status of the applicant	Yes	May impact financial stability and loan eligibility

Dependents	Number of dependents	Yes	Indicates financial responsibility and affects loan capacity
Self_Employed	Self-employment status	Yes	Self-employed individuals often have distinct financial profiles
ApplicantIncome	Income of the applicant	Yes	Crucial for evaluating financial capacity
CoapplicantIncome	Income of the co-applicant	Yes	Combined income gives a better picture of overall financial stability
LoanAmount	Amount of loan applied for	Yes	Essential to assess the financial magnitude of the request
Loan_Amount_Term	Term of the loan (in months)	Yes	Impacts monthly repayment and eligibility
Credit_History	Credit history of the applicant	Yes	A key factor in assessing the applicant's creditworthiness
Loan_Status	Loan approval outcome	Yes	Target variable for prediction; essential for model training and evaluation