Project Flow

Team ID	PNT2022TMID13933
Project Name	Smart Lender-Applicant Credibility Prediction for Loan Approval

1. Installing Required Libraries.

2. Data Collection.

➜ Collect the dataset

3. Data Preprocessing.

➜ Importing the Libraries.

➜ Importing the dataset.

➜ Understanding Data Type and Summary of features.

➜ Taking care of missing data

➜ Data Visualization.

➜ Drop the column from Data Frame & replace the missing value.

➜ Splitting the Dataset into Dependent and Independent variables

➜ Splitting Data into Train and Test.

4. Model Building

➜ Decision Tree Model

➜ Random Forest Model

➜ KNN Model

➜ Xgboost Model

➜ Comparing The model

➜ Evaluating Performance of the model

➜ Saving The Model

5. Application Building

➜ Building Html Pages

➜ Build Python Code

➜ Run the Application

6. Final UI

➜ Dashboard Of the flask app.

6. Train The Model on IBM

➜ Registering For IBM

➜ Training The ML Model On IBM

➜ Integrate Flask With Scoring End Point

Data Collection	
Trained Data Set	Test Data Set

Analysing Data	
Univariate Analysis	Bivariate Analysis

Data Cleaning	
Removing missing values	Outlier Treatment

Model Building			
Logistic Regression	Decision Tree	Random Forest	XGBoost

Evaluating Performance Metrics of Models				
Accuracy	Precision	Recall	Specificity	ROC curve

Result Analysis