Project Name: Smart Lender - Applicant Credibility Prediction for Loan Approval

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SOLUTION ARCHITECTURE:

The dataset is obtained by gathering lot of required datasets and combining them to produce a generalized dataset. The dataset thus produced is pre-processed i.e., the dataset is cleaned before doing data visualization. Then the four algorithms are applied on the same pre-processed dataset and calculated for the best performed algorithms among them. Then the best algorithm is used to train the model and test it to check how accurate the algorithm can predict the output. Then we deploy that model to predict if bank loan can be approved or not for a specific candidate.

Customer Information

Dataset

Loan data

Pre-Processor

Data Cleaning

Visualization

Model

Selecting best algorithms

ML Algorithms

Predicting Loan

Result

Logistic Regression

Random Forest

Naïve Bayes

Decision Trees