CONTENTS

S.NO.	TITLE
1	Introduction
	1.1 Overview
	1.2 Purpose
2	Problem Definition & Design Thinking
	2.1 Empathy Map
	2.2 Ideation & Brainstorming Map
3	Result
4	Advantages & Disadvantages
5	Applications
6	Conclusion
7	Future Scope
8	Appendix

1.INTRODUCTION

1.1 Overview

Loan Prediction is very helpful for employee of banks as well as for the applicant also. The aim of this Paper is to provide quick, immediate and easy way to choose the deserving applicants. Dream housing Finance Company deals in all loans. They have presence across all urban, semi urban and rural areas. Customer first apply for loan after that company or bank validates the customer eligibility for loan.

Company or bank wants to automate the loan eligibility process (real time) based on customer details provided while filling application form. These details are Gender, Marital Status, Education, Number of Dependents, Income, Loan Amount, Credit History and other. This project has taken the data of previous customers of various banks to whom on a set of parameters loan were approved.

So the machine learning model is trained on that record to get accurate results. Our main objective of this project is to predict the safety of loan. To predict loan safety, the SVM and Naïve bayes algorithm are used. First the data is cleaned so as to avoid the missing values in the data set.

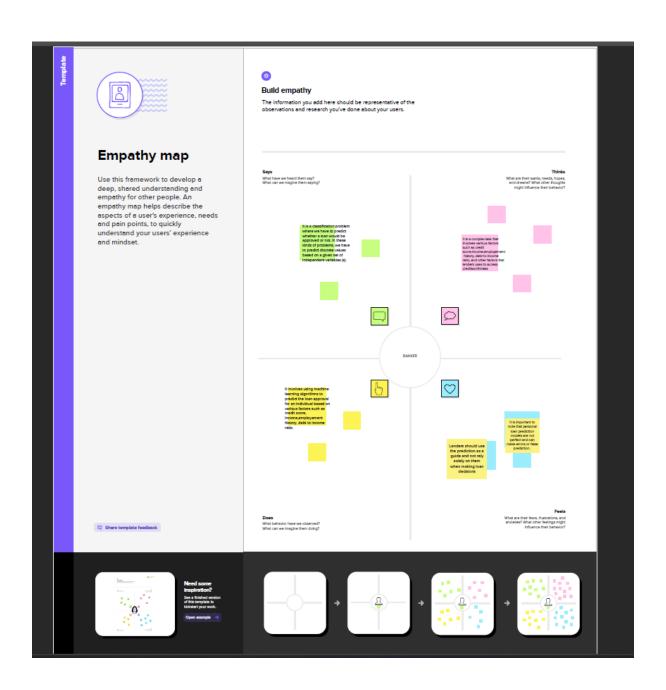
1.2 Purpose

It is done by predicting if the loan can be given to that person on the basis of various parameters like credit score, income, age, marital status, gender, etc. The prediction model not only helps the applicant but also helps the bank by minimizing the risk and reducing the number of defaulters.

Loan Prediction System allows jumping to specific application so that it can be check on priority basis. This Paper is exclusively for the managing authority of Bank/finance company, whole process of prediction is done privately no stakeholders would be able to alter the processing.

2. Problem Definition & Design Thinking

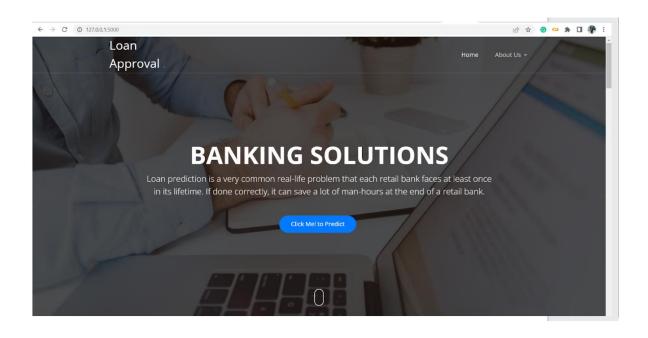
2.1 Empathy map

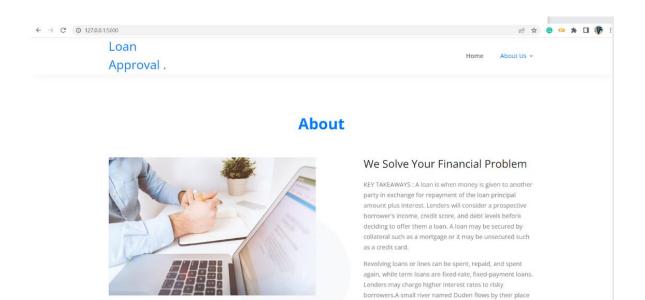


2.2 Ideation & Brainstroming map

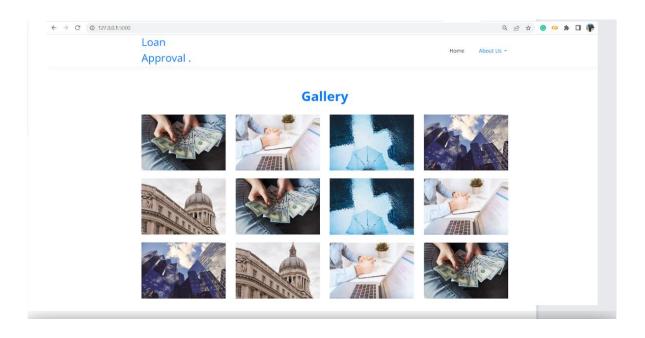


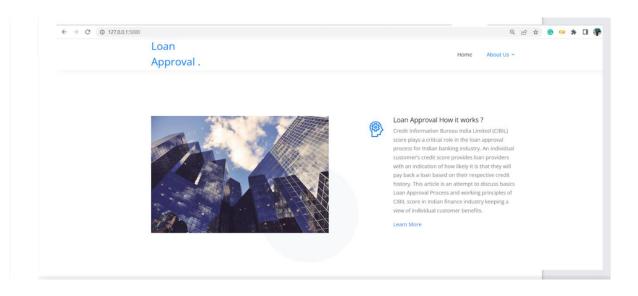
3. Result

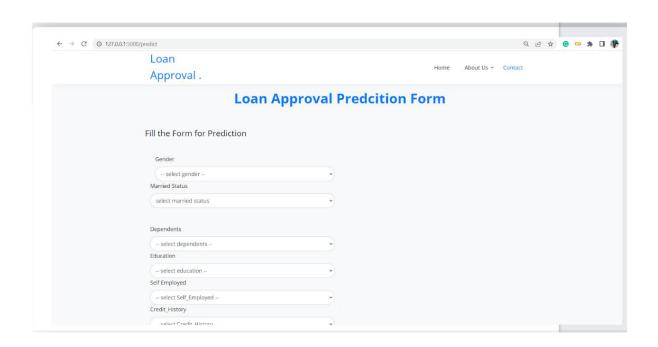


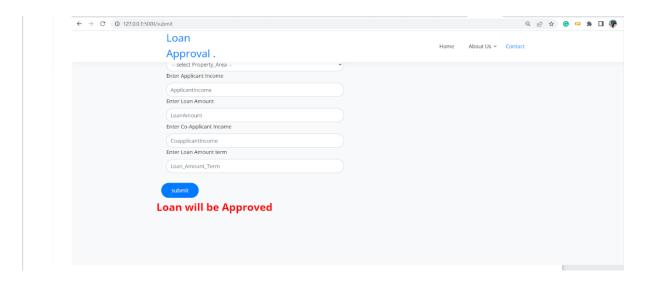


and supplies it with the necessary regelialia.









4 Advantages & Disadvantages

Advantages:

Accuracy—one of the primary benefits of using machine learning for credit scoring is its accuracy.

Unlike human manual processing, ML-based models are automated and less likely to make mistakes.

This means that loan processing becomes not only faster but more accurate, too, cutting costs on the whole.

Disadvantages:

The disadvantage of this model is that it emphasize different weights to each factor but in real life sometime loan can be approved on the basis of single strong factor only, which is not possible through this system

you could be paying interest on funds you're not using. You could have trouble making monthly repayments if your customers don't pay you promptly, causing cashflow problems.

5 Applications

Banking and Finance: In the banking and finance sector, loan approval prediction can help lenders assess the creditworthiness of borrowers and make informed decisions about whether or not to approve a loan.

E-commerce: These companies can use loan approval prediction to offer financing options to their customers.

Insurance: These companies can use loan approval prediction to access the financial stability of potential policy holders.

Real Estate: In this industry, loan approval prediction can help lenders assess the risk of default on montage loans.

6. Conclusion

So here, it can be concluded with confidence that the Naïve Bayes model is extremely efficient and gives a better result when compared to other models. It works correctly and fulfills all requirements of bankers. This system properly and accurately calculate the result. It predicts the loan is approve or reject to loan applicant or customer very accuratly.

7. Future Scope

With the help of loan prediction , business could provide more targeted recommendations based on users prediction location.

Loan prediction can be used to improve transportation services such as predicting traffic congestion and optimizing routes for public transportation, ride sharing services.

These models can be used to segment customers based on their creditworthiness and other factors.

8. Appendix

