CONTENTS

S.NO	TITLE
1	Introduction
	1.1 Overview1.2 Purpose
2	Problem Definition &Design Thinking
	2.1 Empathy Map2.2 Ideation & Brainstorm Map
3	Result
4	Advantages & Disadvantages

- 5 Applications
- 6 Conclusion
- 7 Future Scope
- 8 Appendix

1.INTRODUTION

1.1 Overview

Loan Prediction is very helpful for employee of banks as well as for the applicant also. The aim 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 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 provide while filing 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 customer of various banks to whom on a set of parameters loan were appoved.

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, th SVM and Navie Bayes algorithm are used. First the data is cleaned so as to avoid the missing values in the data set.

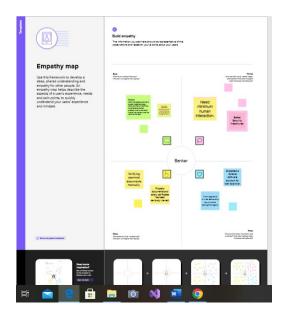
1.2 Purpose

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 alos help the bank by minimizing the risk reducing the number od defaulters.

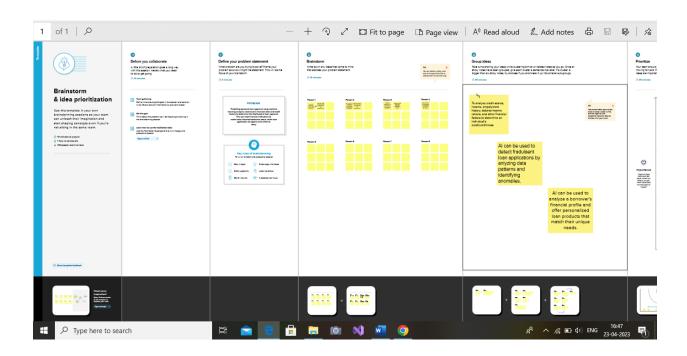
Loan Prediction System alloes jumping to specify application so that it can be check on priority basis. This Paperis execlusively for the managing authority of Bank/Finance company. Whole process of prediction is done private so stakeholders would be able to after the processing.

2. Problem Definition & Design Thinking

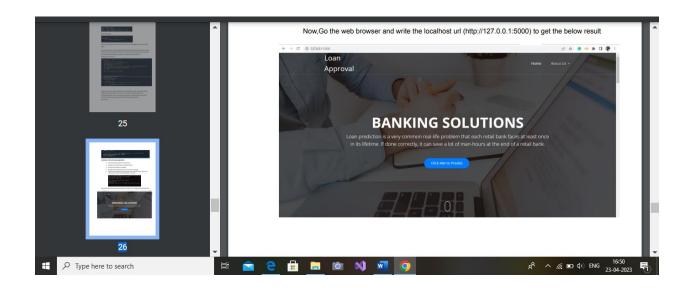
2.1 Empathy map

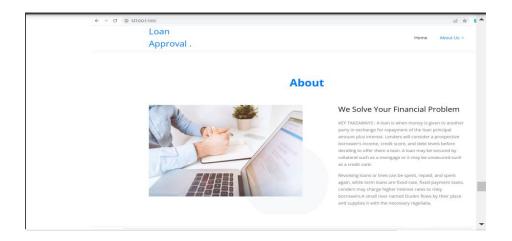


2.2 Ideation&Brainstorming Map

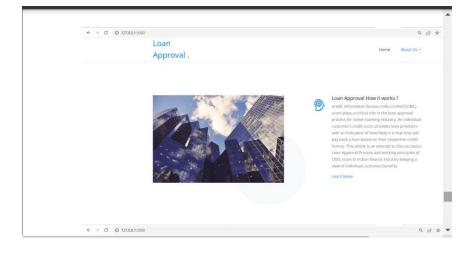


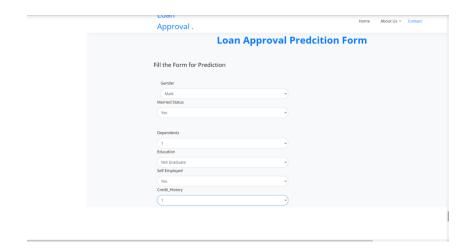
3. Result

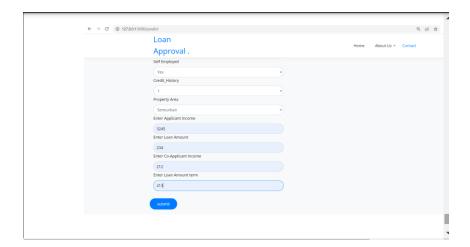


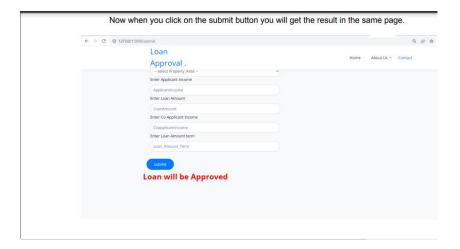












4.Advantages & Disadvantages

Advantages:

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

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

This mean that loan processing becomes not only faster but more acurate too cutting costs on the whole.

Disadvantages:

The disadvantages of this model is that it esphasize different weight to each factors but in real life sometimes 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 yours 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 lender asses 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 lender 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 fulfils 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 accurately.

7. Future Scope

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

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

These models can be used to segment customer based on the creditworthiness and other factors.

8.Appendix

