

LITERATURE SURVEY

Date	17 October 2022
Team ID	PNT2022TMID13791
Project Name	Smart Lender – Applicant Credibility Prediction for Loan Approval
Maximum Marks	2 Marks

1. BANK LOAN APPROVAL PREDICTION USING DATA SCIENCE TECHNIQUES (ML) [Subhiksha R, Shalini B, et al , 2022]

Banks are making a major part of profit through loans. Loan approval is a very important process for banking organizations. It is very difficult to predict the Loans. The loan approval is based on cibil score. If the cibil score is less, then the customer is not approved for the loan process. For this problem we are going to predict the credibility for the loan applicant by using machine learning Data science.

2. AN APPROACH FOR PREDICTION OF LOAN APPROVAL USING MACHINE LEARNING ALGORITHM [Nashik, Kathe Rutika Pramod et al , 2021]

Main source of income of any bank is on its credit line. So the bank can earn from the interest of those loans which they credit. A bank profit or loss depends to a large extent on loans i.e whether the customers are paying back the loan or defaulting. The right predictions are very important for the maximization of profits, it is essential to study the nature of the different methods and their comparison. The Logistic regression model is used here. The models are compared on the basis of the performance measures such as sensitivity and specificity. The final results have shown that the model produces different results. Most of the time, applicants with high income sanctioning low amounts are more likely to get approved which make sense, more likely to pay back their loans. Some basic characteristic gender and marital status seems not to be taken into consideration by the company

3. SURVEY ON PREDICTION OF LOAN APPROVAL USING MACHINE LEARNING TECHNIQUES [Ambika and Santosh Biradar , 2021]

The main objective of the Banking Sector is based on customer or client's Credits, Debits and loan purposes. In these Queries, the Banker wants to check the assets of the client or customer and then only he / she can move to the next step that someone wants to apply the loan, then the banker wants to predict the CIBIL Score of the particular client. The Loan distribution is the primary business of almost Every bank. In this project, We want to predict the credibility for the Loan appliers by some keywords like Machine learning (ML) using Data Science.

S.NO	NAME OF THE PAPER	PUBLISHER	ALGORITHMS USED
1	An approach for prediction of loan approval using machine learningalgorithm	IEEE XPLORE Conference Proceedings	Dataset taken: Kaggle Algorithm Used: Logistic Regression Training & TestSplit: 80:20 No of Attributes:13 (Including Targetcolumn)

2	Accurate loan approval predictionbased on machine learning approach	Journal of Engineering sciences	Dataset Taken: Kaggle Algorithms Used: Decision Tree Random Forest Support Vector Machine Linear Models Neural Net Ada Boost No of Attributes:13 (Including Target Column)
3	A study on machine learning algorithm forenhancement of loan prediction	International Research Journal of Modernizationin Engineering Technology and Science	Dataset taken: Kaggle Algorithm Used: Logistic RegressionDecision Tree Random Forest Training & TestSplit: 70:30 No of Attributes:12

			(Including Target column) Highest Accuracy Obtained : Logistic Regression(89.075%)
4	A Survey on ensemblemodel for loan prediction	A Survey on ensemble model for loanprediction	Discussion: Ensemble learning algorithms Eg : Bagging, Boosting etc..