**LITERATURE SURVEY**

Batch Number: B6-6M2E

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| **S.NO** | **PAPER TITLE** | **PAPER CONCEPT** | **ADVANTAGE** | **DISADVANTAGE** |
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| 1 | M. A. Sheikh, A. K. Goel and T. Kumar, "An Approach for Prediction of Loan Approval using Machine Learning Algorithm," *2020 International Conference on Electronics and Sustainable Communication Systems (ICESC)*, 2020, pp. 490-494, doi: 10.1109/ICESC48915.2020.9155614. | In this paper, author did a comprehensive study on predicting the loan defaulters, the bank can reduce its Non- Performing Assets. This makes the study of this phenomenon very important. Previous research in this era has shown that there are so many methods to study the problem of controlling loan default. | Author propose 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. | Existing models designed for predicting the loan approvals which  cannot effectively predict accuracy for the different sets of the data on various attributes. |
| 2 | A survey on Ensemble Model for Loan Prediction Anchal Goyal [1], Ranpreet Kaur [2] Research Scolar [1], Assistant Proffesor [2] Department of Computer Science and Engineering RIMT –IET (PTU), Mandi Gob | In this paper, author did a comprehensive study on the Extending credit to individuals is necessary for markets and society to function smoothly. Estimating the probability that an individual would default on their loan, is useful for banks to decide whether to sanction a loan to the individual or not. | In this paper we discuss the ensemble model that is combination of two or more algorithms and give better results as compared to stand alone models. The performance is also enhanced through the ensemble model. | Every Machine Learning models has its own benefits and losses But Ensemble model combines all one or more algorithms may be sometimes leads to the Invalid validation or Accuracy loss. |
| 3 | A STUDY ON MACHINE LEARNING ALGORITHM FOR ENHANCEMENT OF LOAN PREDICTION Prateek Dutta\*1 \*1Student, B.tech Artificial Intelligence, G.H. Raisoni College of Engineering, India. | In this paper Author the lending industry, investors offer loans to lenders for the purpose of repaying interest. If the  borrower pays the loan, then the lender will make a profit on the interest. | The Author gives the main advantage as if the borrower fails to  repay the loan, the lender loses the loan. Therefore, lenders face the problem of predicting the risk of the | Implementing a machine learning model for the prediction will not only meet lenders Expectations, it will decrease the total cost of fraud, and will increase customer loyalty and trust. |
| 4 | G. Arutjothi and C. Senthamarai, "Prediction of loan status in commercial bank using machine learning classifier," *2017 International Conference on Intelligent Sustainable Systems (ICISS)*, 2017, pp. 416-419, doi: 10.1109/ISS1.2017.8389442. | This paper gives an in depth analysis of Machine Learning : Banking Industry always needs a more accurate predictive modeling system for many issues. Predicting credit defaulters is a difficult task for the banking industry. The loan status is one of the quality indicators of the loan. | The objective of this paper is to create a credit scoring model for credit data. Various machine learning techniques are used to develop the financial credit scoring model. | Unfortunately, a growing number of Fraud Customers who Are in the intention to not pay the loan amount so these paper states that  using these algorithms may lead to the computational cost. |
| 5 | Z. Ereiz, "Predicting Default Loans Using Machine Learning (OptiML)," *2019 27th Telecommunications Forum (TELFOR)*, 2019, pp. 1-4, doi: 10.1109/TELFOR48224.2019.8971110. | Credit risk management is essential to financial institutions as it directly affects business results. Although artificial intelligence (AI) and machine learning are not new, microcredit organizations are shy in accepting these methods in their credit risk assessment. | Author in this model gives a good scoring model gives mixed and unreliable results. Machine learning, on the other hand, offers a much broader view of a client and can be used to manage not only credit risk, but other business risks too. | As this paper demonstrates, prediction using machine learning models is very high but depends on the quality of the data. Several algorithms (to be more specific - BigML's OptiML) were used to identify the best suited for the lending business |