LOAN PREDICTION USING MACHINE LEARNING

ANALYSIS:-

The dataset Loan Prediction: Machine Learning is indispensable for the beginner in Data Science, this dataset allows you to work on supervised learning, more preciously a classification problem. This is the reason why I would like to introduce you to an analysis of this one.

We have data of some predicted loans from history. So when there is name of some **‘Data’** there is a lot interesting for **‘Data Scientists’.**I have explored dataset and found a lot interesting facts about loan prediction.

The first part is going to focus on data analysis and Data visualization. The second one we are going to see the about algorithm used to tackle our problem.

The purpose of this analysis is to predict the loan eligibility process.

For the non-numerical values (e.g. Property\_Area, Credit\_History,etc.), we can look at frequency distribution to understand whether they make sense or not.

Understanding the Distribution of Numerical Variables

* ApplicantIncome
* LoanAmount

STEPS:-

**1. LOAD THE DATA   
2. ANALYSE AND VISUALIZE THE DATASET**

**3. MODEL TRAINING**

**4. MODEL EVALUATION**

**5. TESTING THE MODEL**

IMPLEMENTATION METHODOLOGY Data Collection: The dataset collected for foretelling loan failure clients is foretold into Training set and testing set. Generally 8020 proportion is applied to dissociate the training set and testing set. The data model which was created using Decision tree is applied on the training set and hung on the test take fineness, Test set forecasting is done. Following are the attributes: Variable Description Loan\_id Unique loan id Gender Male / female Married Applicant.

Predicting the outcomes:

Using decision tree algorithm, the outcomes of all applicant can be stored in any file.

Algorithm:

1. Import all the required python modules

2. Import the database for both TESTING and TRAINING.

3. Check any NULLVALUES are exists

4. If NULLVALUES exits fill the table with corresponding coding

5. Exploratory Data Analysis for all ATTRIBUTES from the table

6. Plot all graphs using MATPLOTLIB module

7. Build the DECISIONTREE MODEL for the coding.

8. Send that output to CSV FILE.