

# **PROJECT TITLE - LOAN ELIGIBILITY PREDICTION**

**NAME - KOMBATTULA REENA**

**SBID - SB20210110775**

## **1 INTRODUCTION**

### **1.1 Overview**

I have considered two files which are Train data and Test data next reading data from Train and Test files using JAVA is done, then later on the subcategories of files are understood and the type of data is displayed in the console. Then all the data is represented in the form of a graph which is an analysis of all the data present in the Train and Test data files.

After the visualization and cross verifying the data using WEKA software all the inputs, outputs and necessary data would be present for the cross-validation. Therefore, for any program that needs to be processed using ML, there would be 80% of train data and 20% of test data after the cross-validation the result would be displayed in the console, and loan eligibility would be predicted.

### **1.2 Purpose**

Home loan eligibility is defined as a set of criteria basis which a financial institution assesses the creditworthiness of a customer to avail and repay a particular loan amount. Home loan eligibility depends on criteria such as age, financial position, credit history, credit score, other financial obligations etc.

Housing loan eligibility is primarily dependent on the income and repayment capacity of the individual(s). There are other factors that determine the eligibility of home loans such as age, financial position, credit history, credit score, other financial obligations etc.

In banks people are allotted to calculate the loan eligibility to minimise this I have come up with a loan eligibility prediction to decrease the work load of the bank employee.

## **2 LITERATURE SURVEY**

### **2.1 Existing problem**

Loan Eligibility is defined as a set of criteria basis which a financial institution assesses the creditworthiness of a customer to avail and repay a particular loan amount. There are various types of loans like home loan, car loan etc. Generally, calculating the

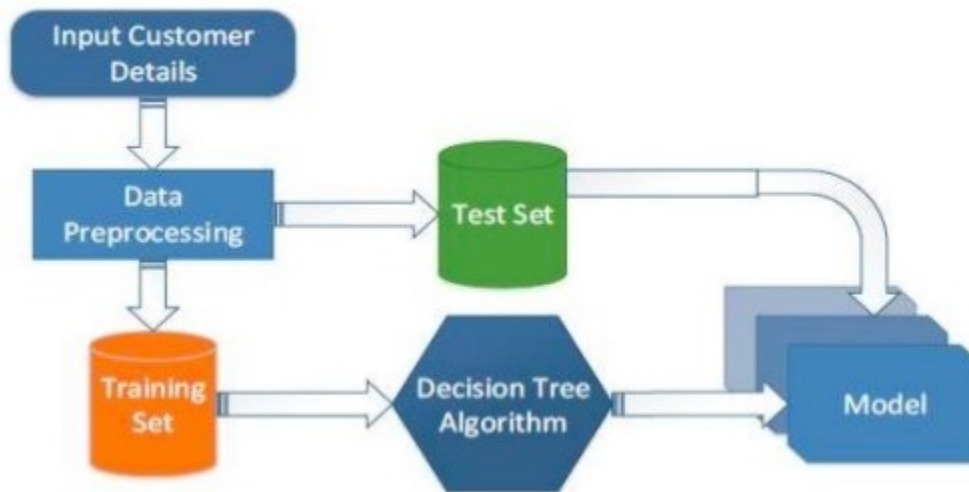
eligibility for loan is quite difficult.

## 2.2 Proposed solution

Machine learning is an application of artificial intelligence (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. The process of learning begins with observations or data, such as examples, direct experience, or instruction, in order to look for patterns in data and make better decisions in the future based on the examples that we provide.

## 3 THEORITICAL ANALYSIS

### 3.1 Block diagram

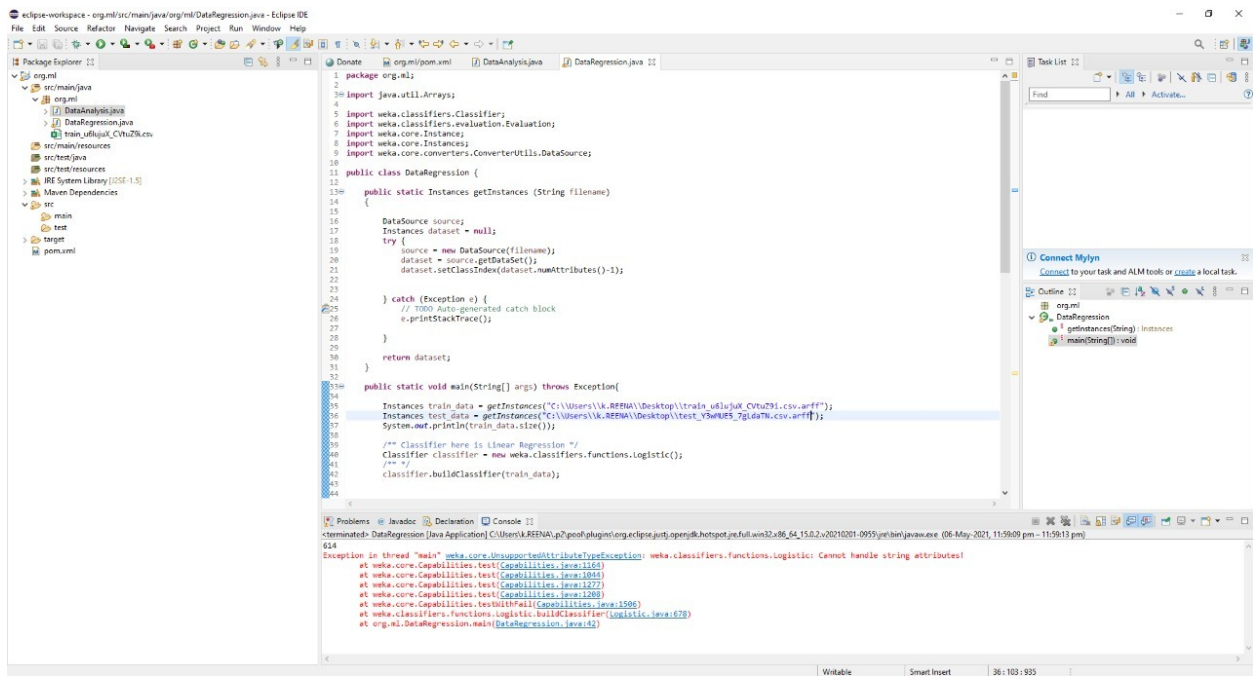


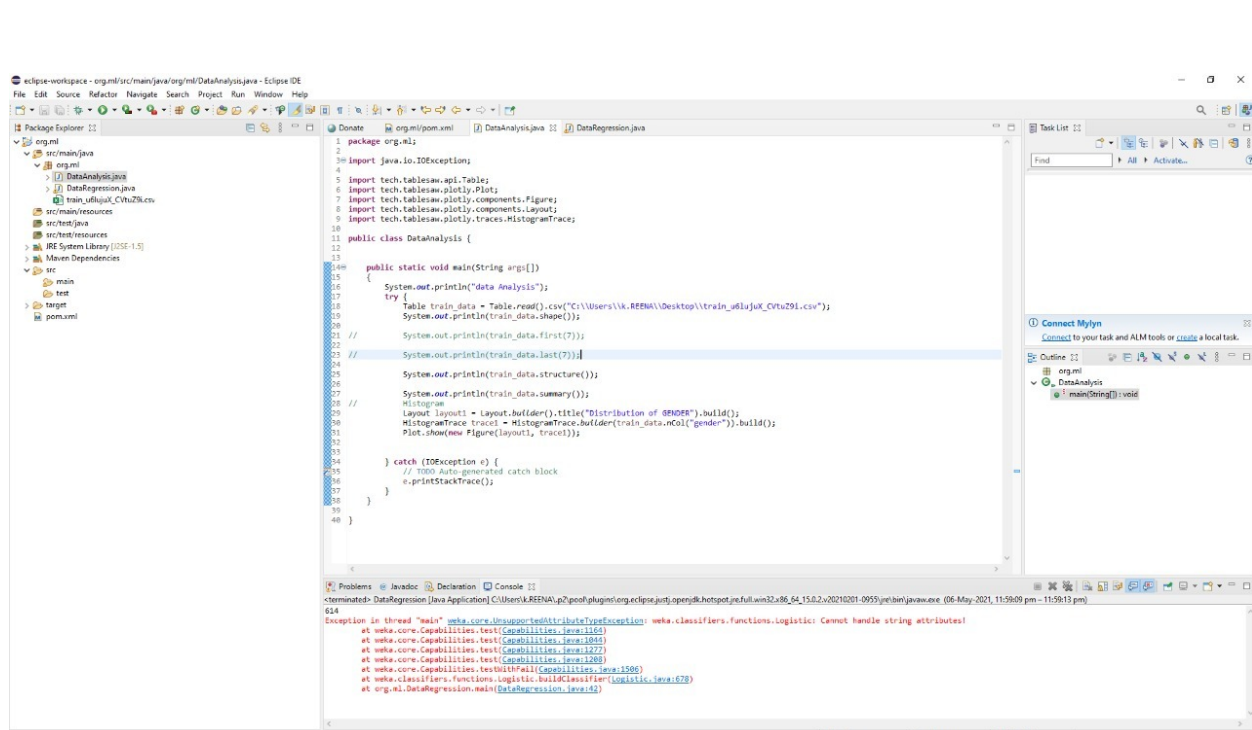
Architecture of Proposed Model

### 3.2 Hardware / Software designing

A data set/ data collection is a collection of data. In the case of tabular data, a data set corresponds to one or more database tables, where every column of a table represents a particular variable, and each row corresponds to a given record of the data set in question. The data set lists values for each of the variables, such as height and weight of an object, for each member of the data set. Each value is known as a datum. Data sets can also consist of a collection of documents or files

## 4 FLOWCHART





## 6 ADVANTAGES & DISADVANTAGES

### ADVANTAGES:-

- The selection process for giving a Loan will be easy.
- Man work will be decreased.
- Mistakes will become zero.
- People will get fair loans according to the income, age, etc.
- Low cost maintenance.

### DISADVANTAGES:-

- Prof of the given information will not be verified.
- A small mistake will change the whole analysis of the information.
- If we didn't update then we will get old analysis.

## 7 APPLICATIONS

The areas where the Loan prediction application is used are

- Industrial Banks
- Co-operative Banks
- Savings Banks
- Central Banks
- commercial banks

## 8 CONCLUSION

Therefore, this application will reduce the man work by decreasing of selecting the eligible people for loan and decrease the man-made mistakes.

## 9 FUTURE SCOPE

The further things which I can add to this application are to be able to verify the proof of the person and to be able to distinguish the difference between original and duplicate copy.

## 10 BIBILOGRAPHY

- [https://en.wikipedia.org/wiki/Exploratory\\_data\\_analysis](https://en.wikipedia.org/wiki/Exploratory_data_analysis)
- <https://pandas.pydata.org/pandas-docs/stable/>.
- <https://www.bankbazaar.com/personal-loan/loans-for-construction.html>

## APPENDIX

