# MACHINE LEARNUING BASED LOAN

# APPROVAL-PROPOSED SOLUTION

**PROBLEM STATEMENT :**

# Inaccurate Details in Application

# Too Many Pending Loans

# Job Instability and Low Income

# Difficult to manage the time.

# Bank employees cannot provide instant responses and quick answers.

# IDEA/SOLUTION DESCRIPTION :

* To deal with the problem, we developed automatic loan prediction using machine learning techniques.
* We will train the machine with previous dataset. so machine can analyses and understand the process.
* Then machine will check for eligible applicant and give us result.

# UNIQUENESS :

* Among all the algorithms logistic regression performs best on the validation data with an accuracy score of 82.7%
* Having a help-line 24/7 is not needed while we have Machine learning based application.
* With the help of application, we provide an interactive service to our customers.

# SOCIAL IMPACT/ CUSTOMER SATISFACTION:

* Instant Approval and Disbursal
* Flexible loan repayment period.
* Low-interest rates.
* Usage flexibility.
* Easy documentation.
* Quick processing.
* Several discounts.
* Paperless process.

**BUSINESS MODEL:**

* As we are dealing with customers need, Implementing this will increase the trust among the people.
* Feedback provides an opportunity to build a 2-way communication channel with your customers.
* With the amount of customers increase, during the growth of the application. We can provide premium features to the user with advanced options.

# SCALABILITY OF SOLUTION :

### Go paperless and switch to digital documents.

* Loan origination, for many lending companies, still involves a series of manual steps.
* The processes usually require logging into multiple systems. This causes delays in the processing and decision making. To make more accurate and more informed lending decisions, it would be a better idea if lending companies could eliminate the manual steps in their processes.

### Analyze processes using modern analytic tools