Loan Application Status Prediction

**ACKNOWLEDGEMENT**

Primarily I would thankful for being able to complete this project with success. Then i would like to express my special thanks of gratitude to Datatrained who give me the golden opportunity to this wonderful project on the given topic which also help me to learn a lot.

**INTRODUCTION**

I am presenting this project assignment like on the Loan Application Status Prediction. This dataset includes details of applicants who have applied for loan. The dataset includes details like credit history, loan amount, their income, dependents etc.  In this project I have tried to give all the important things and information about the project.

This project contains following sub-topics:  
1.      Problem Definition  
2.      Data Analysis  
3.      EDA Concluding Remarks  
4.      Pre-processing Pipeline  
5.      Building Machine Learning Models  
6.     Concluding Remarks

ABOUT THE PROJECT

In this project we are finding the loan status of a person who is already available in the database. We have to build a model that can predict whether the loan of the applicant will be approved or not. This database includes details of applicants who have applied for loan. The dataset includes details like

* Loan\_ID
* Gender
* Married
* Dependents
* Education
* Self\_Employed
* ApplicantIncome
* CoapplicantIncome
* Loan\_Amount
* Loan\_Amount\_Term
* Credit History
* Property\_Area

TOOLS AND TECHNOLOGYES

In this project I have used

* Python
* Data visualization
* Machine learning
* Jupitar note book
* Git Hub

PROJECT

**Problem Definition -:**

In this project to approve loan to somebody there are several aspect by which we can analyse and we can approve the loan. The person who wants the loan have to fill an online application form based on which we can provide the loan so I have developed a machine learning system.

**Data Analysis-:**

* To provide loan to a person we have to analysis some data like what education he or she has been done, is the person is graduated or not. The person is self employed or not, the person is having good credit score or not whether the person is having good background or not. So to check that we have to analysis from the data.

**Pre-processing Pipeline-:**

we cant give the row data to the system so we have to encoding the data so once we process the data we will split the data in to training data and test data. Because the machine learning model will be trained in the training data and it will evaluated on the test data so the evaluation is basically to check how well our model is performing in the given dataset. Once we have split the data in to train and test we will feed the train dataset to the machine learning model so we have used support vector machine learning model.

**Building Machine Learning Models-:**

We have used support vector machine model we will give the data as labels. So in this model we have two labels

1. Approve the loan
2. Reject the loan

After giving the data it will evaluate based on our test data and it will give us the accuracy score of our model. After that we will have a trained support vector machine model. So when we will give data to support vector machine model machine learning algorithm will decide weather the person is approved or not for the loan.

**Concluding Remarks**

It was a wonderful learning experience for me while working on this project. This project has developed my thinking skills related to machine learning. The project gave me real insight in to the Loan Application Status Prediction project.

I enjoyed each and every bit work I had put into this project.

Thank you

Khirod Kumar Pradhan

**Personal Information**

Name- Khirod Kumar Pradhan

Date- 24/02/2022

Institute- DATATRAINED

Gmail-khirodkumar1995@gmail@com

Git Hub - <https://github.com/myproject21>

Contact- 9348500256