Low Level Document (LLD)

Predicting Credit Card Approval

Version number: 1.0

Last date of revision: 10 March 2023

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**DECLARATION**

We declare that this written submission represents us ideas is our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources.

We also declare that we have adhered to all principles of academic honesty

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We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when

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**Revision History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Reviewer** | **Approver** | **Comments** |
| 0.1 | 25-02-23 | Digambar Rathod | Digambar Rathod |  |  |
| 0.2 | 27-02-23 | Digambar Rathod | Digambar Rathod |  |  |
| 0.3 | 28-02-23 | Digambar Rathod | Digambar Rathod |  |  |
| 0.4 | 1-02-23 | Digambar Rathod | Digambar Rathod |  |  |
| 1.0 | 2-02-23 | Digambar Rarthod | Digambar Rathod |  |  |

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10. **Introduction:**

**1.1 Scope of the Document**

* This section will cover details regarding scope of the document
* Low level design document will be at component level i.e., for website portal there will be one LLD

**1.2 Intended Audience**

* The intended audience for a discussion on machine learning for data would be individuals with a basic understanding of machine learning.

**1.3 System Overview**

* This section will capture overview of system application i.e for what system is being developed
* Who are the stake holders of system?
* What are other external Systems through which this will be interacting.

1. **Project Briefing:**

The system, is for data protection of users while sending to someone known but if someone else interest in stealing your data will be not able to know what was the data actually. For this , the project will focus on exploring and implementing techniques for data . The goal of this project is to develop a comprehensive understanding of machine learning techniques , their strength and weakness, and to implement a prototype that demonstrates the effectiveness of approach in practice. In prediction the message for the development of predicting the future key. Commercial banks receive a lot of applications for credit cards. Many of them get rejected for many reasons, like high loan balances, low income levels, or too many inquiries on an individual's credit report, for example. Manually analyzing these applications is mundane, error-prone, and time-consuming (and time is money!). Luckily, this task can be automated with the power of machine learning and pretty much every commercial bank does so nowadays. In this notebook, we will build an automatic credit card approval predictor using machine learning techniques, just like the real banks do.

1. **Problem Statement:**

Their are some problems is create to check the accuracy of the model which of the algorithm is use.

1. **Problem Solution:**

In the project what we do is as following:-

1. First read the file data
2. Check null values
3. Remove null values
4. Check the relation of data
5. Print using matplotlib
6. Train and test the data file
7. Check acuracy of the model
8. Using linearReagrrssion
9. Using Random forest algorithm
10. **Objective of the Project:**

Objective of this project is to Understand, Choose, Implement, Test, Document, Evaluate and Ensure the data model work.

1. **Scope of Project:**

Best example of this project processing is we use in the various banks.

1. **Block Diagram:**

Read file

Check null values

Remove null value

Use linear Regression and random forest algorithm

Model is Ready

1. **Requirements Gathering:**

* Window 10 Operating system
* Python learning
* 1 individual members for the research part
* Project integration idea from IEEE website

1. **Analysis:**

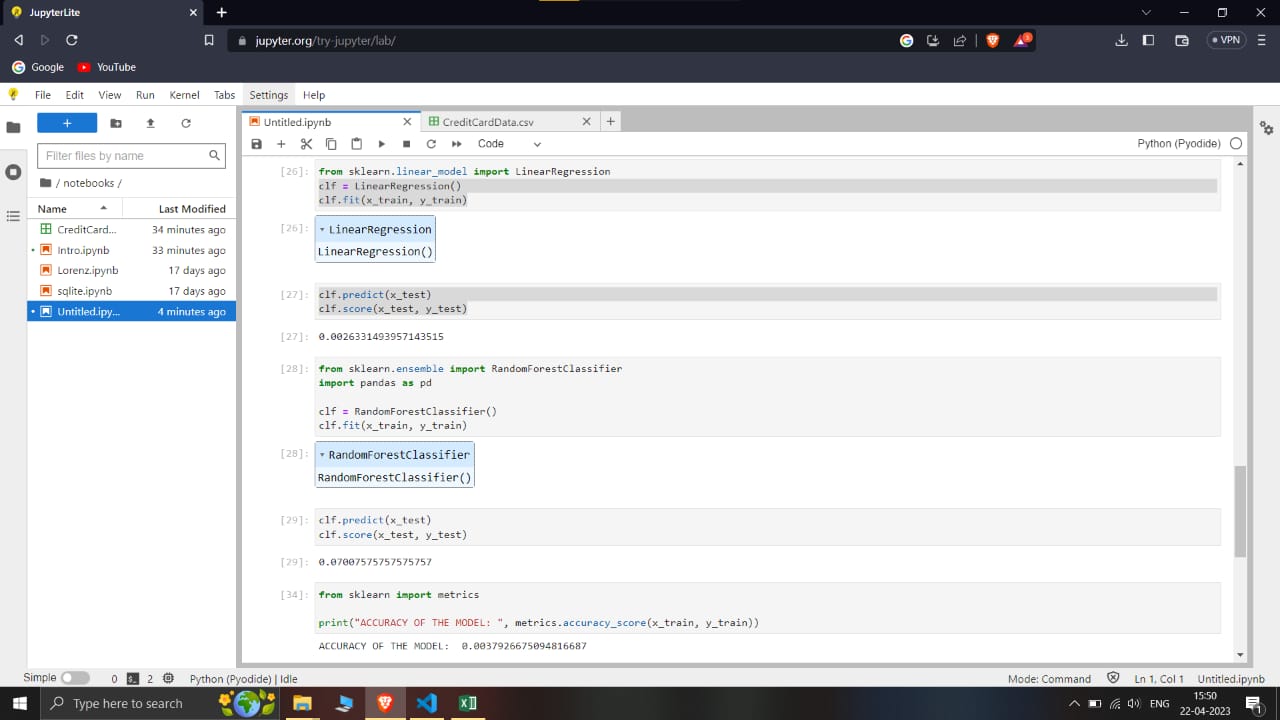
Combine this model with with a regression model to predict how much of a credit limit an applicant will be approved for.

Hyperparameter tuning with grid search or random search.

Better interpretation of the chi-square test

Retrain the model without the least predictive features

1. **Final Screenshot of Project Output**

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