

Final Software Solution IS699 – Loan Sanction Predictor

1. ZIP the code for your SW and submit.

We have attached a zipped file in the submissions for the code.

2. Provide instructions on how to execute your solution - Imagine you have a new developer on the team. The developer needs to know what to install on the development machine, how to edit/enhance the code, and how to execute the application.

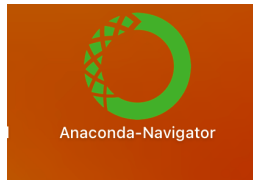
- i. The hardware needed for this is a normal laptop that has satisfactory memory and is coding compatible.
- ii. Make sure that the device has Jupyter notebook installed either directly or through a virtual machine, like Anaconda. This environment would help run the code more smoothly. In our PC we installed Anaconda first. Then we opened it and clicked on “Launch” for Jupyter Notebook.

Please find the link to install Anaconda incase it is needed:

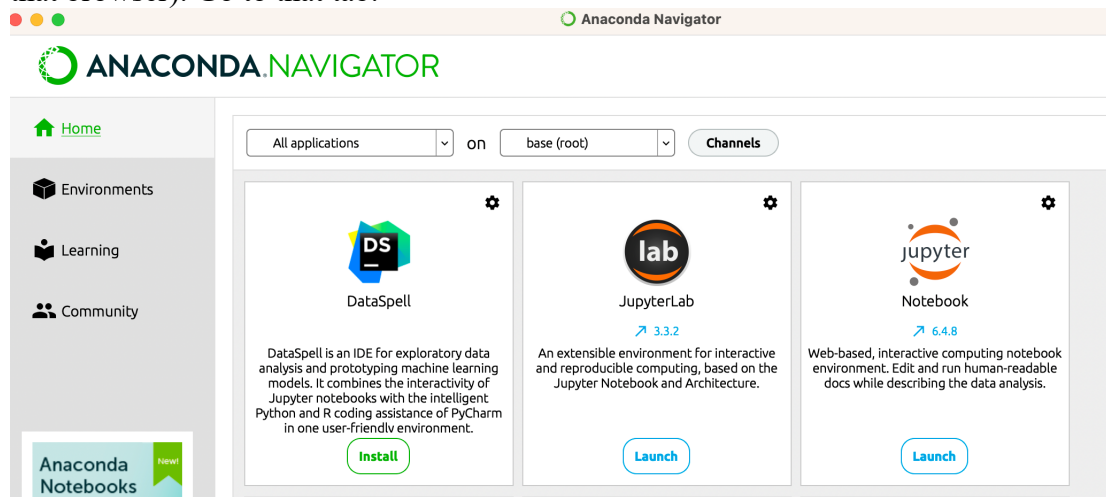
<https://www.anaconda.com/products/distribution>

Download Anaconda according to your required specifications.

Step 1: Open Anaconda Navigator



Step 2: Click on Launch under Jupyter Notebook. This action will open a localhost new tab window on your default browser (Google Chrome is preferred since we worked on that browser). Go to that tab.



Step 3: Navigate your folder and open it.

<input type="checkbox"/> 0 ▾	/ Desktop / loan sanction predictor	Name ▾	Last Modified	File size
	..		seconds ago	
<input type="checkbox"/>	Dataset		2 years ago	
<input type="checkbox"/>	doc		2 years ago	
<input type="checkbox"/>	Output		8 days ago	
<input type="checkbox"/>	code.ipynb		7 days ago	474 kB

Step 4: Click on code.ipynb to open it. It will open in a new tab.

Step 5: Start clicking on the Run button for each code cell continuously to see the output. The code also has written explanations in it to make it easy to understand.

jupyter code (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel)

run cell, select below

Loan Prediction System

```
In [1]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
import warnings
warnings.filterwarnings("ignore")
```

Reading data

```
In [2]: train = pd.read_csv('Dataset/train_ctrUa4K.csv')
```

- iii. The Output folder consists of all the outputs we generated.
- iv. The Dataset folder consists of the data sets we use for training and test as well as a sample of what the output data should look like.
- v. The doc file has images of our analysis throughout the code just in case we want to use it elsewhere.
- vi. To make any modifications, it would be recommended to make a copy of this folder and store it so that the original code remains untouched just in case of any errors.
- vii. For editing the code further keep in mind that the three forms of algorithms are performed using validation methods which you can read more about in the links cited in references.

- viii. You will run the code.ipynb file to test it and to execute it. The result will be as it displays.
- ix. Now for the website, make sure you have access to the editing rights.
- x. Open a wix.com account so that you can view the website as a developer rather than a user.
- xi. Edit the website if required and for more instructions follow the following guide:
<https://www.wix.com/blog/2021/02/how-to-make-a-website/>
- xii. To view the Tableau .twbx file; called Result Comparison, make sure you have Tableau Desktop installed on your PC.
- xiii. Open the file in Tableau Desktop and view our comparison on different sheets.

3. Provide a link to your source version control (e.g. GitHub URL) or similar.

Please find below the GitHub link to our project:

<https://github.com/ruchi3/Loan-Sanction-Predictor>

4. Provide a link to your running application – Wix Website

<https://katjacrusius.wixsite.com/cipc>

This is the link to our website. You can navigate it as you like.

Thank you!