Configuration Manual

MSc Research Project
MscDAD_A_JAN_24_O

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MSc Project Submission Sheet

School of Computing

Student Name:	Dipesh Manish Patel
Student ID:	x23197609
Programme:	MSCDAD_A_Jan24_O **Year:** 2024
Module:	MSc Research Project
Lecturer:	Prof Aaloka Anant
Submission Due Date:	12/12/2024
Project Title:	Stacking Ensemble Approach towards Predicting Irish-Real Estate
Word Count:	**364** **Page Count: 4**

I hereby certify that the information contained in this (my submission) is information pertaining to research I conducted for this project. All information other than my own contribution will be fully referenced and listed in the relevant bibliography section at the rear of the project.
ALL internet material must be referenced in the bibliography section. Students are required to use the Referencing Standard specified in the report template. To use other author's written or electronic work is illegal (plagiarism) and may result in disciplinary action.

Signature: Dipesh Patel

Date: 11/12/2024

PLEASE READ THE FOLLOWING INSTRUCTIONS AND CHECKLIST

Attach a completed copy of this sheet to each project (including multiple copies)	□
Attach a Moodle submission receipt of the online project submission, to each project (including multiple copies).	□
You must ensure that you retain a HARD COPY of the project, both for your own reference and in case a project is lost or mislaid. It is not sufficient to keep a copy on computer.	□

Assignments that are submitted to the Programme Coordinator Office must be placed into the assignment box located outside the office.

Office Use Only	
Signature:	
Date:	
Penalty Applied (if applicable):	

Configuration Manual

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1 Device Hardware Specification

To run mentioned project first be note that if the Harward ware requirement satisfied.

Host device	Dell inspiration 7000
Processor	2.80 GHz Intel i7-7700HQ
RAM Memory	8GB
Storage:	512GB
Graphics	Nvidia 1050TI
System type	64bit

2 Installation Jupyter Notebook

Step 1:- Go to Anaconda Navigator web portal link:- https://www.anaconda.com/products/navigator and click on “Download Anacond” as Shown in Figure 1

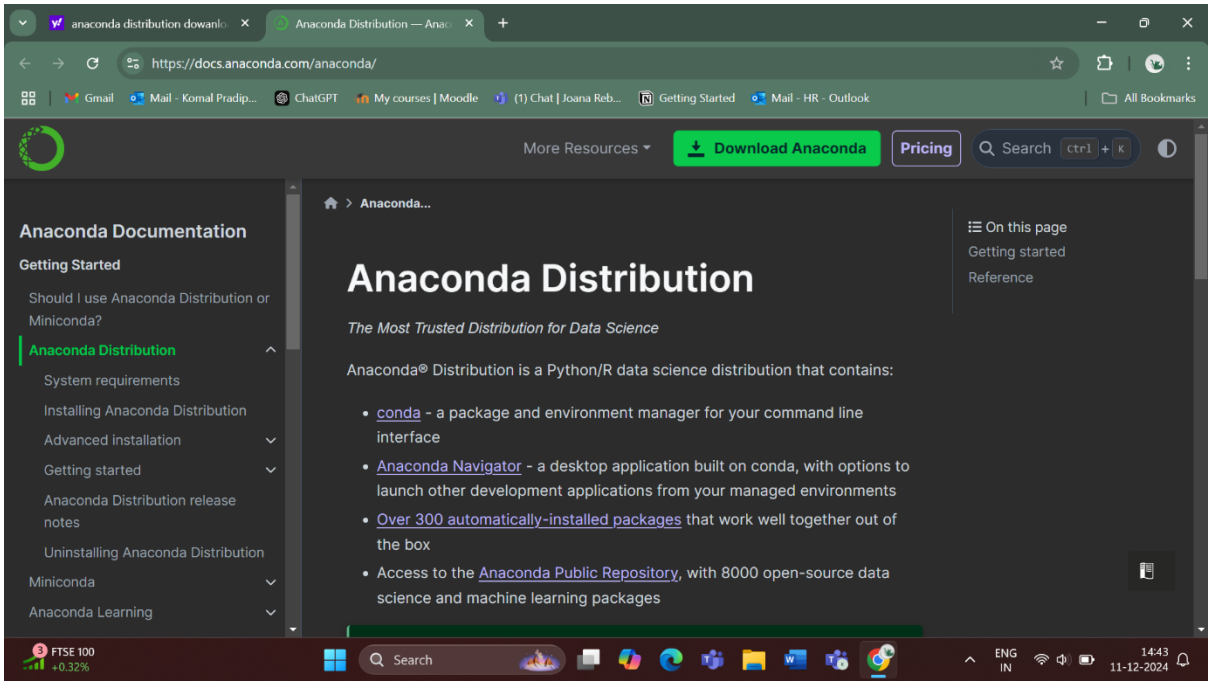


Figure 1 Anaconda navigator web portal

Step2:- Enter your email address to receive the download link on your mail id.shown in figure 2.

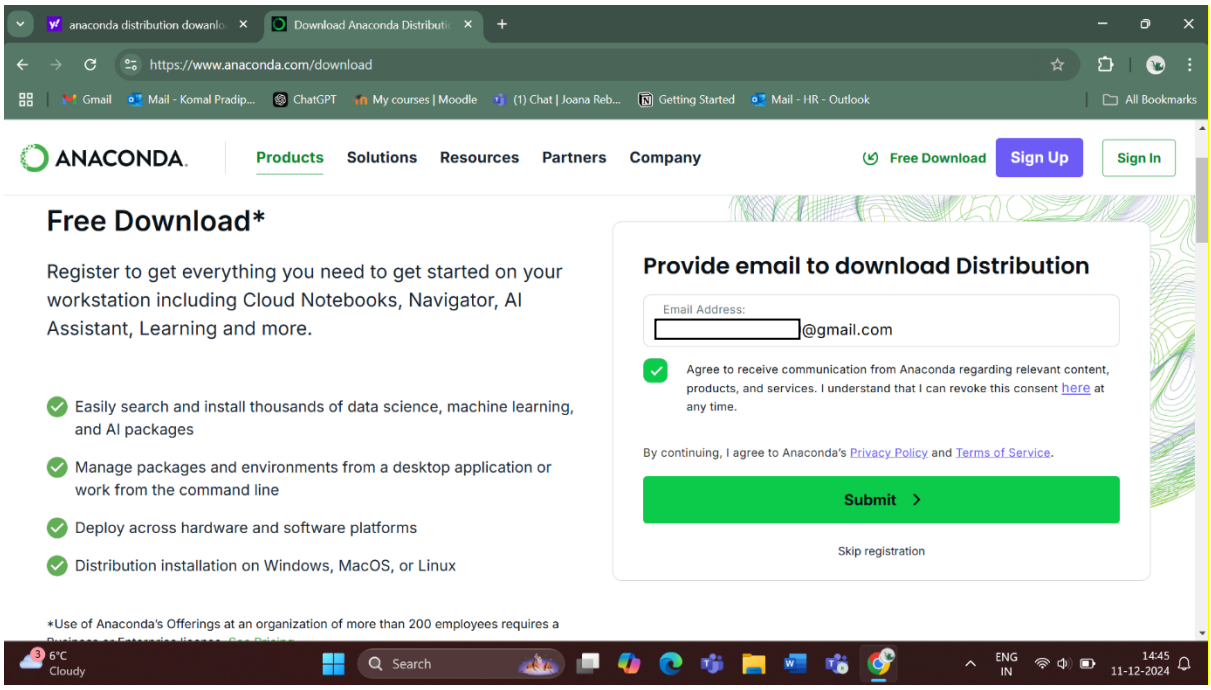


Figure 2 image of email registration form.

Step 3:-After receiving the mail click on download and select the Anaconda file based on your operating system. Shown in Figure 3.

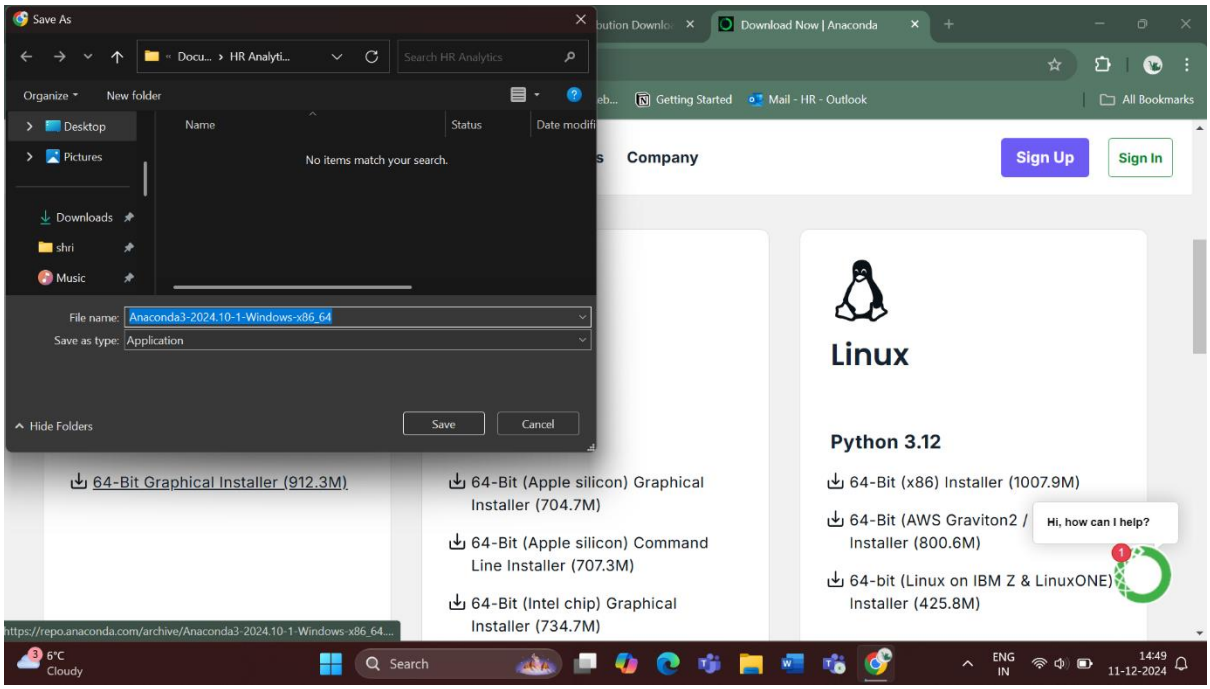


Figure 3 file Installation

Step 4:-after downloading the file install the file in the drive of your choice. After installation the anaconda home screen will appear. Shown in figure 4.then Search for Jupyter notebook and click on button launch.

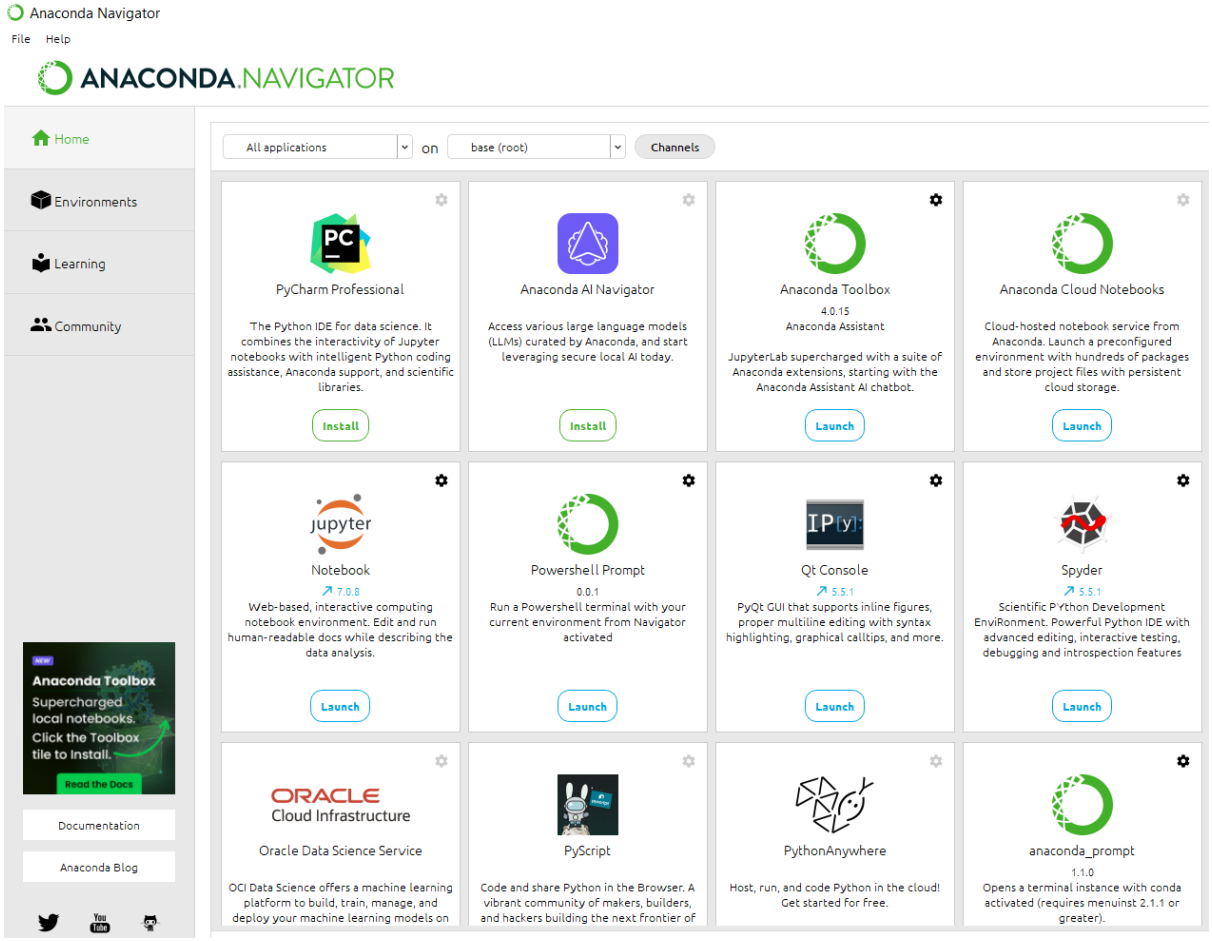


Figure 4 Home screen of anaconda navigator.

Step 5:- After executing the Jupyter notebook user can see the notebook home page and location tab, the location tab will change based on the user choices. The location tab is marked for better understanding in figure 5. Be Shure that the file zip file that you installed in this same location with its supporting file and then open the jupyter notebook.

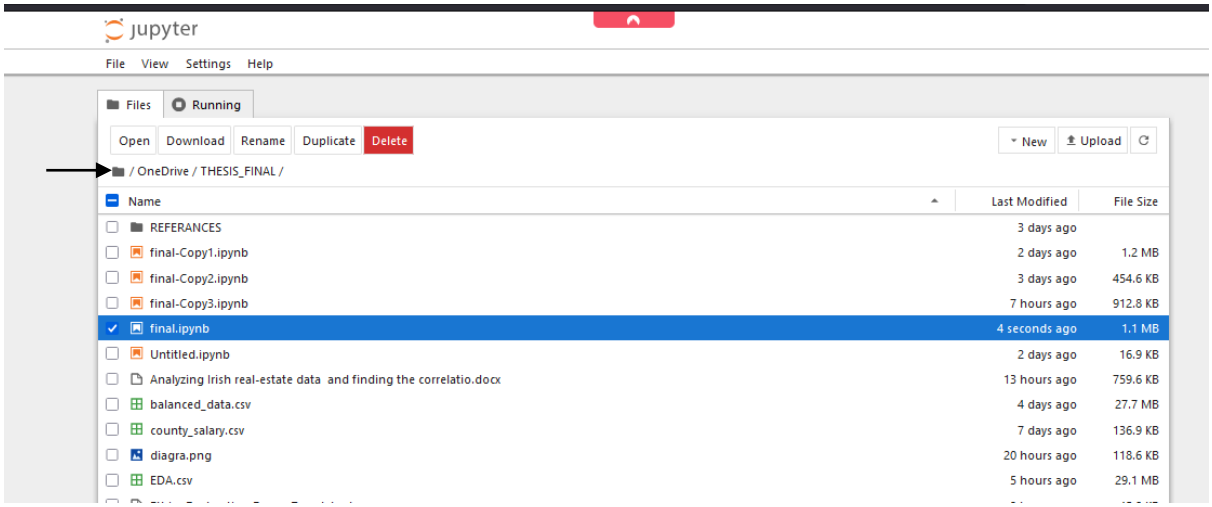
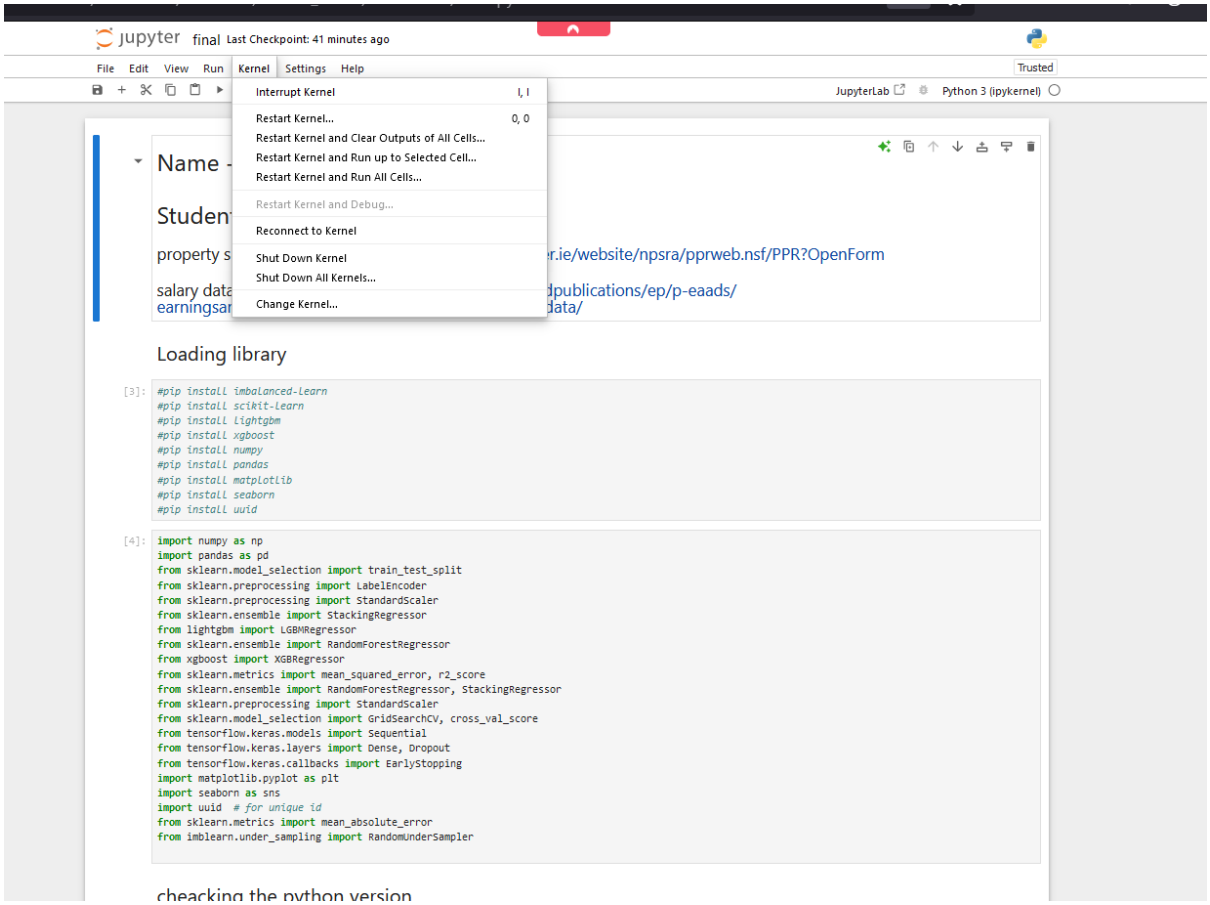


Figure 5 image of jupyter notebook homescreen

Step 6:- After opening the ipynb file you can restart the kernal and run all the conmand from the beginning or you can scroll down and see the previous result shown in figure 6.



3 Official Library setup

To run any code first check for the required library the libraries are as follows even thow if the library is same but there is difference in version there might be a chance of getting error. Because with the updation of library the API or dependencies changes and function argument or return type might change. current python version is 3.12.4 as shown in figure 7.

Library	Use
#pip install imbalanced-learn	Used for handling imbalanced dataset
#pip install scikit-learn	Used for preposing
#pip install lightgbm	Its used for gradient boosting
#pip install xgboost	Another gradient boosting library
#pip install numpy	Fundamental library for numerical computing in python
#pip install pandas	Used for data manipulation
#pip install matplotlib	Used for creating statics,and visualization
#pip install uuid	Useful for creating unique key

```
Python version
3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18 2024, 15:03:56) [MSC v.1929 64 bit (AMD64)]
Version info.
sys.version_info(major=3, minor=12, micro=4, releaselevel='final', serial=0)
```

Figure 7 Python version on anaconda