PRE_ REQUISITES

Date	29 NOVEMBER2022
Team ID	PNT2022TMID27211
Project Name	Project – Web Phishing Detection
Maximum Marks	4 Marks

Things to be done before initialising this project:

ANACONDA NAVIGATOR:

Anaconda is a distribution of the Python and R programming languages for scientific computing (data science, machine learning applications, large-scale data processing, predictive analytics, etc.), that aims to simplify package management and deployment. The distribution includes data-science packages suitable for Windows, Linux, and macOS.Anaconda distribution is a free and open source platform for python and R programming languages.It can be installed on any OS such as windows,linux, and MAC OS.Anaconda navigator is a desktop graphical user interface(GUI) included in Anaconda distribution that allows you to launch applications and manage conda packages, environment and channels without using command line interface (CLI) commands.Anaconda distribution provides installation of python with various IDE's such as jupyter notebook,Anaconda prompt,spyder,etc..

Authentication Prerequisites:

```
anaconda login
```

To install this package run the following:

```
conda install -c distributions distribution
```

For this project we will be using Jupyter Notebook and spyder the below process

PROCEED WITH THE PROCESS:

STEP1: DOWNLOAD ANACONDA PYTHON .

Anaconda can be installed in system by using the following link directly :https://www.anaconda.com/distribution/#download-section

Or it can be installed by searching in the search box.

STEP 2: DOWNLOADING ANACONDAAS PER YOUR OS TYPE

Since,Anaconda is available for windows,Linux and Mac OS hence you can download it as per your OS type by clicking on available options. After clicking on the download option , it will start downloading on your computer.

STEP 3: INSTALLANACONDA PYTHON

Once the downloading process gets completed, go to downloads → double click on the ".exe" file (Anaconda3-2019.03-Windows-x86_64.exe)of Anaconda .It will open a setu window for Anaconda installations, then click on Next. It will open a license agreement window, click on the "I Agree" option and move further. Now select the second option, and click on install. Once the installation gets complete, click on Next. Now installation is completed, tick the checkbox if you want to learn more about Anaconda and Anaconda cloud. Click on Finish to end the process.

STEP 4: OPEN ANACONDA NAVIGATOR

After successful installation of Anaconda, use Anaconda navigator to launch a Python IDE such as Spyder and Jupyter Notebook To open Anaconda Navigator, click on window Key and search for Anaconda navigator, and click on it. After opening the navigator, launch the Spyder IDE by clicking on the Launch button given below the Spyder. It will install the Spyder IDE in your system. As the same process, open the navigator, launch the jupyter notebook by clicking on the Launch button given below the Jupyter.It will install the jupyter IDE in your system.

Building Machine Learning Models:

SKLEARN:

Scikit-learn (Sklearn) is the most useful and robust library for machine learning in Python. It provides a selection of efficient tools for machine learning and statistical modeling including classification, regression, clustering and dimensionality reduction via a consistent interface in Python.

PANDAS:

Pandas is defined as an open-source library that provides high-performance data manipulation in Python.

NUMPY:

NumPy is a very popular python library for large multi-dimensional array and matrix processing, with the help of a large collection of high-level mathematical functions.

MATPLOTLIB:

Matplotlib is one of the plotting library in python which is however widely in use for machine learning application with its numerical mathematics extension.

FLASK:

Flask is a Python-based micro framework used for developing small-scale websites.

If you are using anaconda navigator, follow below steps to download required packages:

STEP 1: Open Anaconda prompt

STEP 2: Type **"pip install numpy**" and click enter.

STEP 3:Type **"pip install pandas"** and click enter.

STEP 4:Type "**pip install matplotlib**" and click enter.

STEP 5: Type "**pip install scikit-learn"** and click enter.

STEP 6:Type **“pip install flask**” and click enter.

If you are using Pycharm IDE, you can install the packages through the command prompt and follow the same syntax as above