PROJECT PRE - REQUISITES

Team ID : PNT2022TMID03339

**Anaconda Navigator :**

Anaconda Navigator is a free and open-source distribution of the Python and R programming languages for data science and machine learning related applications. It can be installed on Windows, Linux, and macOS.Conda is an open-source, cross-platform,  package management system. Anaconda comes with so very nice tools like JupyterLab, Jupyter Notebook, QtConsole, Spyder, Glueviz, Orange, Rstudio, Visual Studio Code. For this project , we will be using Jupiter notebook and spyder .

Packages Required :

Tensor flow:

TensorFlow is an end-to-end open-source platform for machine learning. It has a comprehensive, flexible ecosystem of tools, libraries, and community resources that lets researchers push the state-of-the-art in ML and developers can easily build and deploy ML-powered applications.

Keras:

 Keras leverages various optimization techniques to make high-level neural network API easier and more performant. It supports the following features:

* Consistent, simple, and extensible API.
* Minimal structure - easy to achieve the result without any frills.
* It supports multiple platforms and backends.
* It is a user-friendly framework that runs on both CPU and GPU.
* Highly scalability of computation.

open cv: OpenCV is a library of programming functions mainly aimed at real-time computer vision

1. **Type “pip install numpy” and click enter.**
2. **Type “pip install pandas” and click enter.**
3. **Type “pip install matplotlib” and click enter.**
4. **Type “pip install scikit-learn” and click enter.**
5. **Type "pip install tensorflow==1.14.0” and click enter.**
6. **Type "pip install keras=2.2.4” and click enter.**
7. **Type "pip install opencv-python” and click enter.**
8. **Type “pip install Flask” and click enter.**

**Tutorials to refer , as suggested :**

**[AnacondaNavigator](https://youtu.be/5mDYijMfSzs)**

**[PythonPackages](https://youtu.be/akj3_wTploU)**