PROJECT PREREQUISITES

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| Team ID | PNT2022TMID23697 |
| Project Name | Project -AI-powered Nutrition Analyzer for Fitness Enthusiasts |

**IN ORDER TO DEVELOP THIS PROJECT WE NEED TO INSTALL THE FOLLOWING SOFTWARE/PACKAGES:**

**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 great tools like JupyterLab, Jupyter Notebook, QtConsole, Spyder, Glueviz, Orange, Rstudio, Visual Studio Code.
* For this project, we will be using a Jupyter notebook and Spyder
* If you are using anaconda navigator, follow the below steps to download the required packages: Open anaconda prompt as administrator
* If you are using Pycharm IDE, you can install the packages through the command prompt and follow the same syntax as above.
* Web framework used for building Web applications

Python packages:

* + open anaconda prompt as administrator
  + Type “pip install numpy” and click enter.
  + Type “pip install pandas” and click enter.
  + Type “pip install scikit-learn” and click enter.
  + Type “pip install tensorﬂow==2.3.0” and click enter.
  + Type “pip install keras==2.4.0” and click enter.
  + Type “pip install Flask” and click enter.
* Deep Learning Concepts.

**Artificial Neural Networks:**

**Convolution Neural Networks :**

* A convolutional neural network is a class of deep neural networks, most commonly applied to analyzing visual imagery.