

PROJECT PREREQUISITES

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 StudioCode.
- 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.

