**Prerequisites**

**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**

To build Deep learning models you must require the following packages

**1.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 user friendly framework which runs on both CPU and GPU.
* Highly scalability of computation.

**Flask:**

Web frame work used for building  Web applications