# OPENSOURCE FRAMEWORK

For every projects there are some of the pre-requisites which must be executed before beginning the process. For this project the pre-requisites are,
We must have some of the software to work with it and also prior knowledge about some of the task must be known. They are,

1. Anaconda jupyter
2. Pandas
3. Matploitlib
4. numpy
5. Seaborn

**Anaconda Jupyter:**

- Anaconda Navigator is a desktop GUI that ships with Anaconda and lets you launch applications and manage conda packages, environments, and channels without having to use a command-line interface.
- It can search for packages in a local Anaconda repository or on Anaconda Cloud. With Navigator, you don't need to type commands in a terminal, it lets you work with packages and environments with just a click.
- Anaconda jupyter provides easy access to software like Jupyter, Spyder, R and QT Console etc.
- Easy installation of Anaconda even without much technical knowledge.
- Easy to navigate through files in Jupyter and also to install new libraries.

**Pandas:**

- It is an open-source, BSD-licensed library. Pandas enable the provision of easy data structure and quicker data analysis for Python.
- For operations like data analysis and modeling, Pandas makes it possible to carry these out without needing to switch to more domain-specific language like R..

**Matploilib:**

- ➢ All the libraries that we have discussed are capable of a gamut of numeric operations, but when it comes to dimensional plotting, Matplotlib steals the show.
- ➢ This open-source library in Python is widely used for publishing quality figures in various hard copy formats and interactive environments across platforms. You can design charts, graphs, pie charts, scatterplots, histograms, error charts, etc., with just a few lines of code..

**Numpy:**

- ➢ Numpy is the fundamental package for scientific computing in python.
- ➢ Numpy arrays facilitate advanced mathematical and other types of operations on large numbers of data.

**Seaborn:**

- ➢ When it comes to the visualization of statistical models like heat maps, Seaborn is among the reliable sources.
- ➢ This Python library is derived from Matplotlib and is closely integrated with Pandas data structures. Visit the installation page to see how this package can be installed.