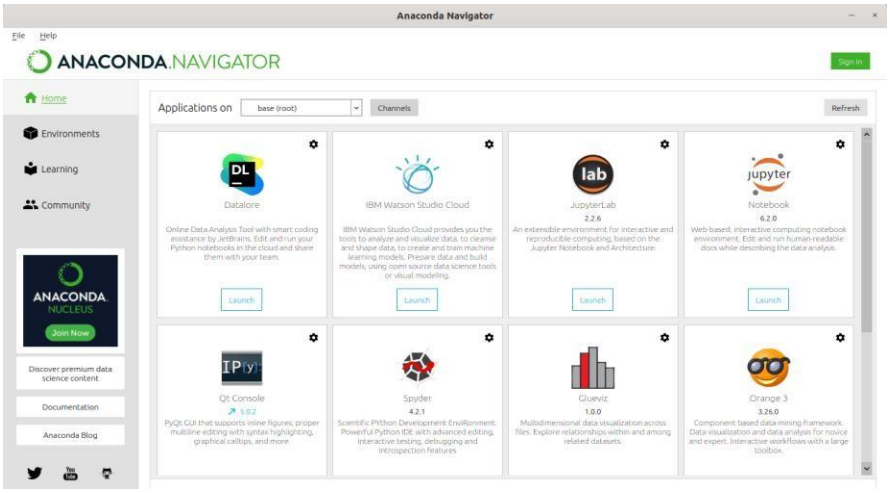
Prerequisites

Date	09 November 2022
Team ID	PNT2022TMID15092
Project Name	Project – Early Detection of Chronic Kidney Disease using Machine Learning

Prerequisites:

To complete the project we have used the following software and packages,

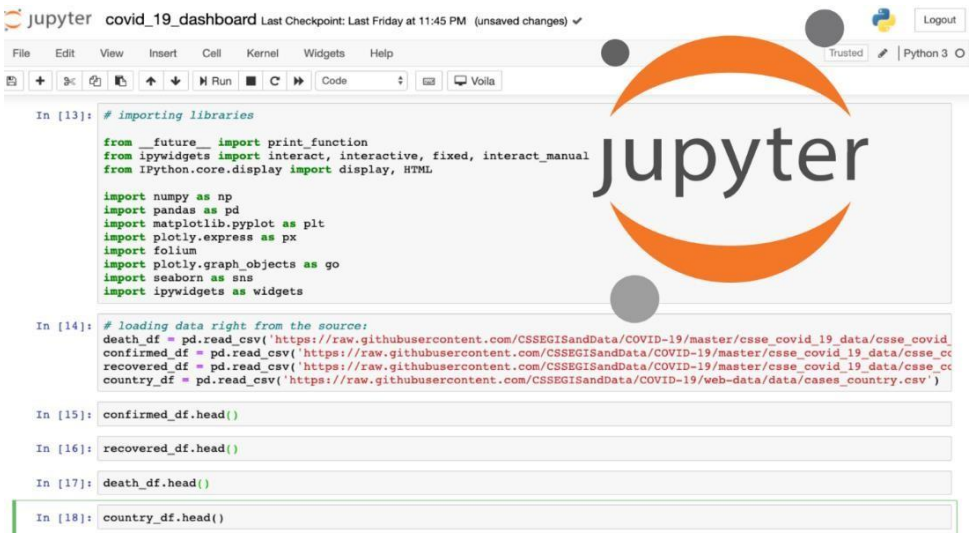
- **Anaconda Navigator:**



- Anaconda Navigator is a desktop graphical user interface (GUI) included in Anaconda Distribution that allows you to launch applications and manage conda packages, environments, and channels without using command line interface (CLI) commands.
- Navigator can search for packages on Anaconda.org or in a local Anaconda Repository.
- It is available for Windows, macOS, and Linux.
- Installation steps,

1. Visit Anaconda.com/downloads.
2. Select Windows.
3. Download the .exe installer.
4. Open and run the .exe installer.
5. Open the Anaconda Prompt and run some Python code

- **Jupyter Notebook:**



- The Jupyter Notebook is the original web application for creating and sharing computational documents. It offers a simple, streamlined, document-centric experience.
- Installation steps,

1. Download Anaconda. We recommend downloading Anaconda's latest Python 3 version (currently Python 3.9).
2. Install the version of Anaconda which you downloaded, following the instructions on the download page.

<u>To build Machine learning models we require the following packages:</u>

1. **Sklearn:**

   Scikit-learn is a library in Python that provides many unsupervised and supervised learning algorithms.

2. **NumPy:**

   NumPy is a Python package that stands for 'Numerical Python'. It is the core library for scientific computing, which contains a powerful n-dimensional array object

   “pip install numpy”

3. **Pandas:**

   pandas is a fast, powerful, flexible, and easy to use open source data analysis and manipulation tool,built on top of the Python programming language.

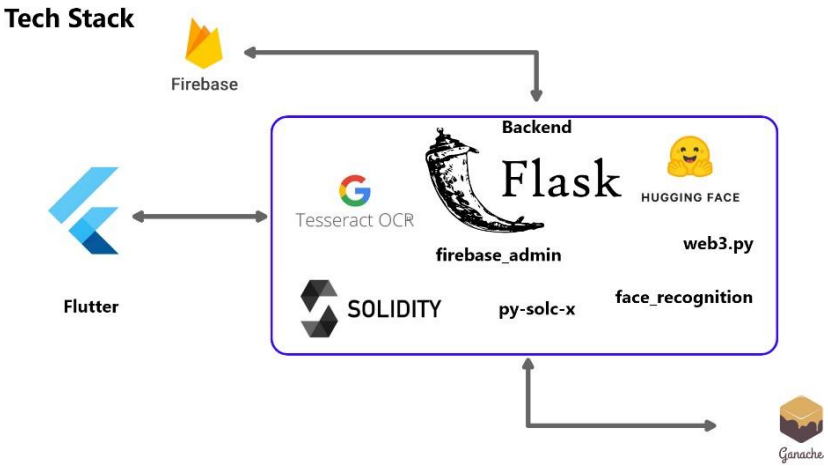
   “pip install pandas”

4. **Matplotlib:**

It provides an object-oriented API for embedding plots into applications using general-purpose GUI toolkits.

“pip install matplotlib”

Flask:



- Flask is a web application framework written in Python
- Flask is considered more Pythonic than the Django web framework because in common situations the equivalent Flask web application is more explicit.
- Flask is also easy to get started with as a beginner because there is little boilerplate code for getting a simple app up and running.

“pip install Flask”