**TEAM ID: PNT2022TMID38300**

**EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRE**

**PRE-REQUISITES**

Each and every project has certain pre-requisites which need to be satisfied or executed in order to the project with a good start.

Some of the prerequisites of this project are as follows:

* **Anaconda Navigator**
* **Tensor flow**

**Anaconda Navigator:**

* Anaconda Navigator is a desktop graphical user interface (GUI) included in Anaconda Distribution that allows you to launch applications and manage 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, Linux.
* The Navigator documentation includes the following
* Installation
* Overview
* Getting started with Navigator
* Tutorials
* Updating Navigator
* Troubleshooting
* Help and support
* Release notes
* Glossary

**Use of Navigator:**

In order to run, many scientific packages depend on specific versions of other packages. Data scientists often use multiple versions of many packages and use multiple environments to separate these different version.

The CLI program anaconda is both a package manager and an environment manager. This helps data scientists ensure that each version of each package has all the dependencies it requires and works correctly.

Navigator is a graphical interface that enables you work with packages and environments without needing to type anaconda commands in a terminal window. You can use it to find the packages you want, install them in an environment, run the packages, and update them – all inside Navigator.

**Tensor Flow:**

* Tensor flow is Google Brain's second-generation system. • Version 1.0.0 was released on February 11, 2017.
* While the reference implementation runs on single devices, Tensor Flow can run on multiple CPUs and GPUs (with optional CUDA and SYCL extensions for general-purpose computing on graphics processing units).
* Tensor Flow is available on 64-bit Linux and mobile computing platforms including Android and iOS.
* Its flexible architecture allows for the easy deployment of computation across a variety of platforms (CPUs, GPUs, TPUs), and from desktops to clusters of servers to mobile and edge devices.
* Tensor Flow computations are expressed as state full dataflow graphs. The name Tensor Flow derives from the operations that such neural networks perform on multidimensional data arrays, which are referred to as tensors.
* During the Google I/O Conference in June 2016, Jeff Dean stated that 1,500 repositories on GitHub mentioned Tensor Flow, of which only 5 were from Google.