

## Pre-requisites

Team ID	PNT2022TMID17719
Project Name	Project - Emerging methods for the early detection of forest fires

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. Tensorflow
3. Keras
4. numpy
5. Twilio account

### 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.

### Tensorflow:

- TensorFlow is a Python-friendly open source library for numerical computation that makes machine learning and developing neural networks faster and easier.
- TensorFlow provides all of this for the programmer by way of the Python language.
- Python is easy to learn and work with, and it provides convenient ways to express how high-level abstractions can be coupled together.
- TensorFlow is supported on Python versions 3.7 through 3.10, and while it may work on earlier versions of Python it's not guaranteed to do so.

### Keras:

- Keras is a deep learning API written in Python, running on top of the machine learning platform TensorFlow.
- It was developed with a focus on enabling fast experimentation.

**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.

**Twilio Account:**

- Twilio is a customer engagement platform used by hundreds of thousands of businesses and more than ten million developers worldwide to build unique, personalized experiences for their customers.