

Date	11 November 2022
Team ID	PNT2022MID54291
Project Name	Emerging methods for early detection of forest fires

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

### **PROJECT OBJECTIVES**

- For the success of each and every project, first the project objectives need to be framed so as to carry out the project with a smooth flow and bring out the desired output.
- The goal of the project is to create a kind of alarm system to detect the forest fire before or after the fire in order to enforce certain preventive measures.
- This can be achieved by using the Deep Learning and CNN model with the cumulative effect of the Artificial Intelligence technology.
- The objectives of this project can be summarized as follows:
  - We will be able to learn how to get and prepare the dataset.
  - We will be able to know how to do image processing.
  - We will understand how CNN layers are work.
  - Classify images using a Convolutional Neural Network.
  - We will be able to know what are the activation functions can be used.
  - We will be able to know how to read images using OpenCV.
  - We will know convolutional Neural Networks for Computer vision AI Problems.
- Upon completing all the above mentioned tasks or milestones we can obtain a model which can predict the forest fires at an early stage.