## EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

## MODEL BUILDING PREDICTIONS

Date	16 November 2022
Team ID	PNT2022TMID47227
Project Name	Emerging Methods for Early Detection of Forest Fires

The last and final step is to make use of our saved model to do predictions. For that we have a class in keras called load\_model. Load\_model is used to load our saved model h5 file (alert.h5).

## **Predictions**

#import load\_model from keras.model from

keras.models import load\_model

#import image class from keras

from tensorflow.keras.preprocessing import image #import numpy import numpy as np

#import cv2 import cv2

#load the saved model model = load\_model("forest1.h5") img=image.load\_img(r'/content/drive/MyDrive/Dataset/test\_set/forest/

- A prediction is a guess about what might happen in the future, based on observations that you make.
- Predicting is closely related to other process skills such as observing, inferring, and classifying.

array([[0.5]], dtype=float32)

- Prediction of forest fire id expected to reduce the impact of forest fire in the future.
- Many fire detection algorithms are available with different approach towards the detection of fire.
- In the existing work processes the fire affected region is predicted based on the satellite images.