EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

MODEL BUILDING PREDICTIONS

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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.