EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

MODEL BUILDING

PREDICTIONS

Date	04 November 2022
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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

x=image.img_to_array(img)

```
#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/
0.48007200_1530881924_final_forest.jpg')
```

- ➤ 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.
- > 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.