

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

PREDICTIONS:

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:

▼ Predictions

```
#import load model from keras.model
from keras.models import load_model
#import image from keras
from tensorflow.keras.preprocessing import image
import numpy as np
#import cv2
import cv2
#load the saved model
model=load_model('forest.h5')
img=image.load_img('/content/drive/MyDrive/IBM PROJECT/dataset/DATA SET/archive/Dataset/Da
x=image.img_to_array(img)
res=cv2.resize(x,dsize=(128,128),interpolation=cv2.INTER_CUBIC)
#expand the image shape
x=np.expand_dims(res,axis=0)
```

11/8/22, 1:16 AM

Main code - Colaboratory

```
pred=model.predict(x)
```

```
1/1 [=====] - 0s 118ms/step
```

```
pred
```

```
array([[0.]], dtype=float32)
```