

# Emerging Methods for Early Detection of Forest Fires

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## Model Building

### 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).

```
In [ ]: #import load_model from keras.model
        from keras.models import load_model
        #import image class from keras
        from keras.preprocessing import image
        #import numpy
        import numpy as np
        #import cv2
        import cv2

In [ ]: #load the saved model
        model = load_model("forest1.h5")

In [ ]: #give any random image path
        img = image.load_img(r'D:\Artificial Intelligence with Flask\Forest Combustion Recognition using AI\Main P
        x = image.img_to_array(img)
        #expand the image shape
        x = np.expand_dims(x,axis = 0)

In [ ]: pred = model.predict_classes(x)

In [ ]: pred
```