EARLY DETECTION OF FOREST FIRE USING DEEP LEARNING

MODEL BUILDING

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Project Name	Project-Early detection of forest fire using deep learning

Predictions

```
[18] #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

[19] model = load_model("forest1.h5")

[20] img=image.load_img('/content/drive/MyDrive/ibm/fire/dataset/test_set/with fire/with fire (3).png')
     z=image.img_to_array(img)
     res = cv2.resize(z, dsize=(128, 128), interpolation=cv2.INTER_CUBIC)
     #expand the image shape
     z=np.expand_dims(res,axis=0)

[21] pred=model.predict(z)

     1/1 [==============================] - 0s 76ms/step

[22] pred

     array([[1.]], dtype=float32)
```