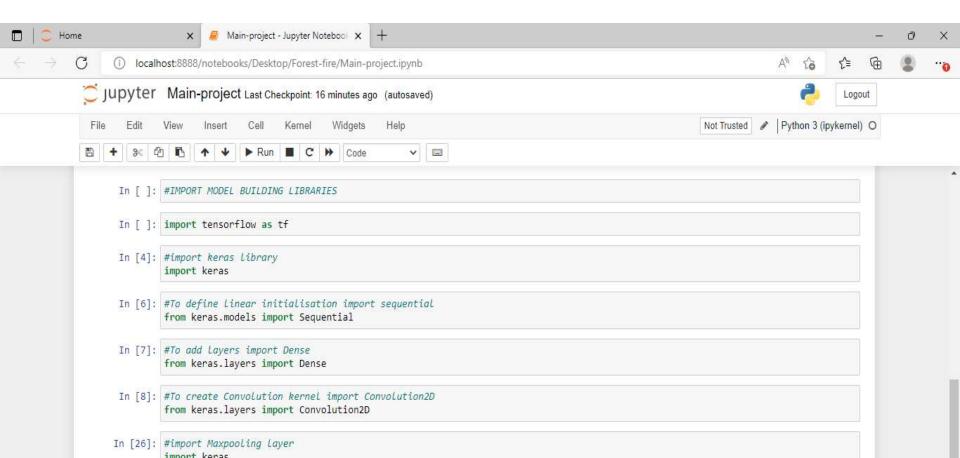
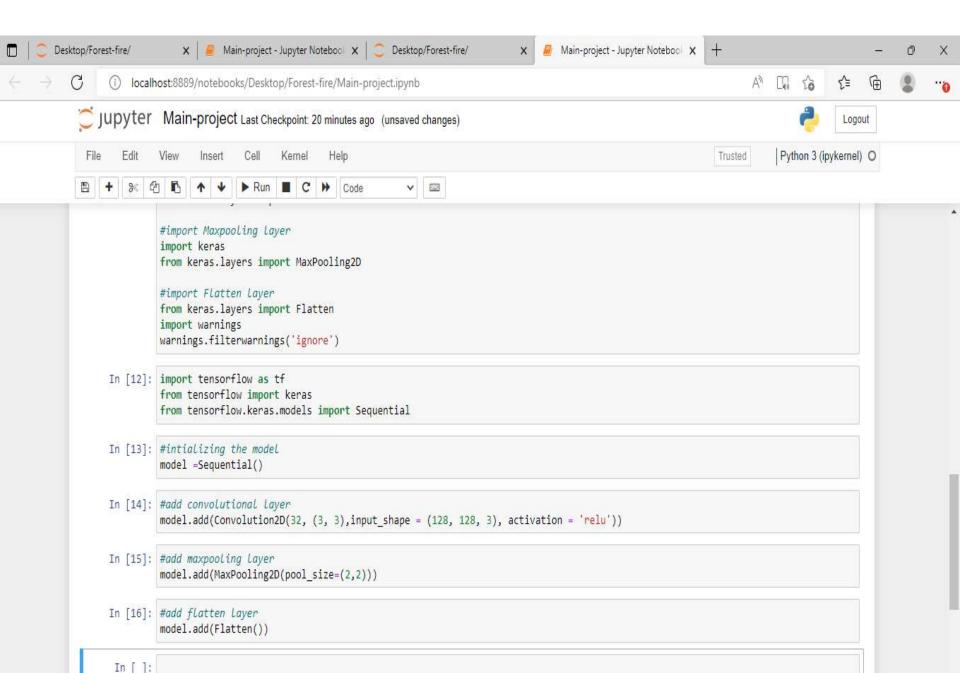
Model Building

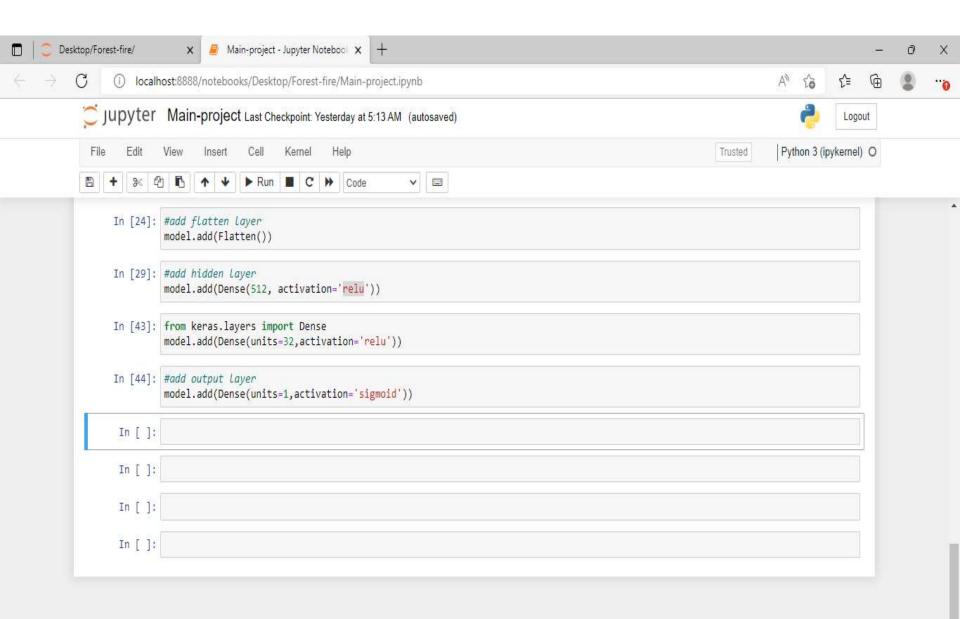
Importing The Model Building Libraries



Initializing The Model&Adding CNN Layers



Adding Dense Layers



Configuring The Learning Process

Training The Model

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Save The Model

```
In [97]: #Save the model
model.save('forest1.h5')
```

Predictions

```
In [25]: #import Load_model from keras.model
         from keras.models import load model
In [26]: #import image class from keras
         from keras.preprocessing import image
In [27]: #import numpy
         import numpy as np
In [28]: #import cv2
         import cv2
In [29]: #Load the saved model
         model = load model('forest1.h5')
In [39]: #give any random image path
         img = image.load_img(r'_101542074_gettyimages_956391468.jpg')
         x = image.img_to_array(img)
         res=cv2.resize(x,dsize=(128,128),interpolation=cv2.INTER CUBIC)
In [40]: # expand the image shape
         x=np.expand_dims(res,axis=0)
In [42]: pred=model.predict(x)
In [43]: pred
Out[43]: arrav([[0.1]. dtvpe=float32)
```