

EARLY DETECTION OF FOREST FIRE USING DEEP LEARNING

MODEL BUILDING

Team Id	PNT2022TMID26362
Project Name	Project-Early detection of forest fire using deep learning

Training the model

```
6.Training the Model
model.fit_generator(x,steps_per_epoch=4,epochs=10,validation_data=y,validation_steps=4)

Epoch 1/10
4/4 [=====] - ETA: 0s - loss: 0.7278 - accuracy: 0.7300WARNING:tensorflow:Your input ran out of data; interrupting training. Make sure that your dataset or generator can generate more data than you want in order to train the model.
4/4 [=====] - 3s 811ms/step - loss: 0.7278 - accuracy: 0.7300 - val_loss: 0.3765 - val_accuracy: 0.9048
Epoch 2/10
4/4 [=====] - 2s 380ms/step - loss: 0.3295 - accuracy: 0.8300
Epoch 3/10
4/4 [=====] - 2s 392ms/step - loss: 0.2884 - accuracy: 0.8800
Epoch 4/10
4/4 [=====] - 2s 478ms/step - loss: 0.2464 - accuracy: 0.9100
Epoch 5/10
4/4 [=====] - 2s 362ms/step - loss: 0.2411 - accuracy: 0.9400
Epoch 6/10
4/4 [=====] - 2s 370ms/step - loss: 0.1998 - accuracy: 0.9300
Epoch 7/10
4/4 [=====] - 2s 528ms/step - loss: 0.1867 - accuracy: 0.9300
Epoch 8/10
4/4 [=====] - 2s 585ms/step - loss: 0.2813 - accuracy: 0.8800
Epoch 9/10
4/4 [=====] - 2s 369ms/step - loss: 0.1991 - accuracy: 0.9400
Epoch 10/10
4/4 [=====] - 2s 405ms/step - loss: 0.2021 - accuracy: 0.9100
<keras.callbacks.History at 0x7f42f4f8eed0>
```