

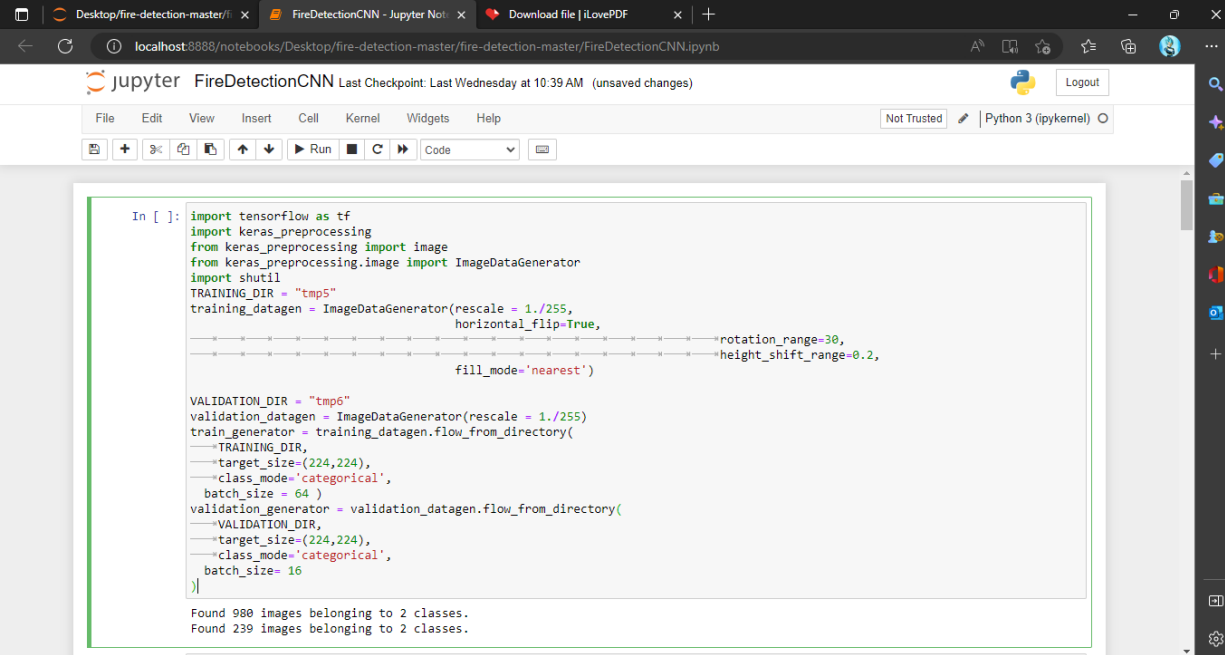
# EMERGING METHODS FOR EARLY DETECTION OF FOREST

## FIRE USING DEEP LEARNING IMAGE PRE-PROCESSING

### APPLYING Image Data Generator to train and test dataset

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Project Name	Project-Emerging methods for early detection of forest fire using deeplearning

### APPLYING ImageDataGenerator to train dataset:



```
In [ ]: import tensorflow as tf
import keras_preprocessing
from keras_preprocessing import image
from keras_preprocessing.image import ImageDataGenerator
import shutil
TRAINING_DIR = "tmp5"
training_datagen = ImageDataGenerator(rescale = 1./255,
                                      horizontal_flip=True,
                                      rotation_range=30,
                                      height_shift_range=0.2,
                                      fill_mode='nearest')

VALIDATION_DIR = "tmp6"
validation_datagen = ImageDataGenerator(rescale = 1./255)
train_generator = training_datagen.flow_from_directory(
    TRAINING_DIR,
    target_size=(224,224),
    class_mode='categorical',
    batch_size = 64 )
validation_generator = validation_datagen.flow_from_directory(
    VALIDATION_DIR,
    target_size=(224,224),
    class_mode='categorical',
    batch_size= 16
)

Found 980 images belonging to 2 classes.
Found 239 images belonging to 2 classes.
```

