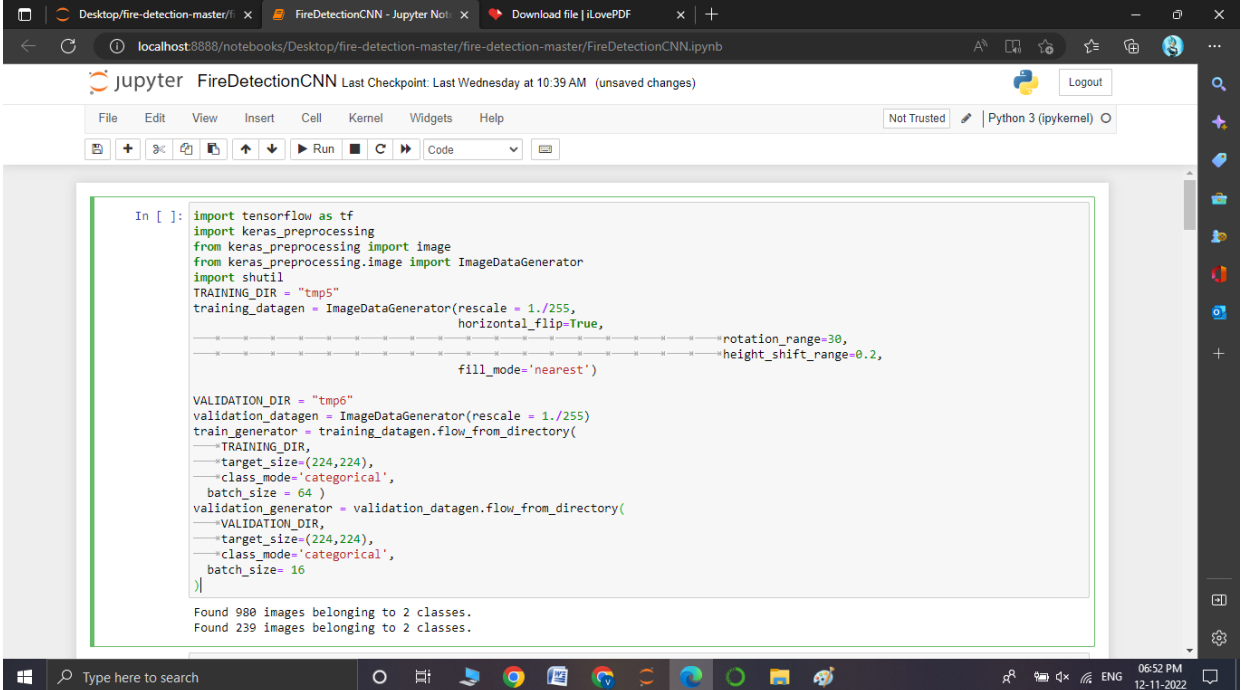


EMERGING METHODS FOR EARLY DETECTION OF FORESTFIRE

TRAINING THE DATASET

Team ID	PNT2022TMID21968
Project Name	Project-Emerging methods for early detection of forest fire using deeplearning

APPLYING ImageDataGenerator to train dataset:



The screenshot shows a Jupyter Notebook titled "FireDetectionCNN" running on a local host. The code in the notebook is as follows:

```
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.

