

APPLY IMAGE DATA GENERATOR FUNCTIONALITY TO TRAINSET AND TESTSET

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PROJECT NAME	Natural Disasters Intensity Analysis and Classification using Artificial Intelligence

Performing data augmentation to train data

```
x_train = train_datagen.flow_from_directory('train_set', target_size = (64,64),  
batch_size = 5, color_mode = 'rgb', class_mode = 'categorical')
```

```
-----  
FileNotFoundError                                Traceback (most recent call last)  
Input In [11], in ()  
----> 1 x_train = train_datagen.flow_from_directory('train_set', target_size  
= (64,64), batch_size = 5, color_mode = 'rgb', class_mode = 'categorical')
```

```
File ~\anaconda3\envs\tf_env\lib\site-  
packages\keras\preprocessing\image.py:1650, in  
ImageDataGenerator.flow_from_directory(self, directory, target_size,  
color_mode, classes, class_mode, batch_size, shuffle, seed, save_to_dir,  
save_prefix, save_format, follow_links, subset, interpolation,  
keep_aspect_ratio)  
    1564 def flow_from_directory(  
    1565     self,  
    1566     directory,  
    (...)  
    1580     keep_aspect_ratio=False,  
    1581 ):  
    1582     """Takes the path to a directory & generates batches of  
augmented data.  
    1583  
    1584     Args:  
    (...)  
    1648         and `y` is a numpy array of corresponding labels.  
    1649     """
```

```

-> 1650     return DirectoryIterator(
1651         directory,
1652         self,
1653         target_size=target_size,
1654         color_mode=color_mode,
1655         keep_aspect_ratio=keep_aspect_ratio,
1656         classes=classes,
1657         class_mode=class_mode,
1658         data_format=self.data_format,
1659         batch_size=batch_size,
1660         shuffle=shuffle,
1661         seed=seed,
1662         save_to_dir=save_to_dir,
1663         save_prefix=save_prefix,
1664         save_format=save_format,
1665         follow_links=follow_links,
1666         subset=subset,
1667         interpolation=interpolation,
1668         dtype=self.dtype,
1669     )

```

```

File ~\anaconda3\envs\tf_env\lib\site-
packages\keras\preprocessing\image.py:563, in
DirectoryIterator._init_(self, directory, image_data_generator,
target_size, color_mode, classes, class_mode, batch_size, shuffle, seed,
data_format, save_to_dir, save_prefix, save_format, follow_links, subset,
interpolation, keep_aspect_ratio, dtype)
    561 if not classes:
    562     classes = []
--> 563     for subdir in sorted(os.listdir(directory)):
    564         if os.path.isdir(os.path.join(directory, subdir)):
    565             classes.append(subdir)

```

FileNotFoundError: [WinError 3] The system cannot find the path specified: 'train_set'

Performing data augmentation to test data

```

x_test = test_datagen.flow_from_directory('test_set', target_size = (64,64),
batch_size = 5, color_mode = 'rgb', class_mode = 'categorical')

```

Found 198 images belonging to 4 classes.