# 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.
```