APPLY IMAGE DATA GENERATOR FUNCTIONALITY TO TRAINSET AND TESTSET

DATE	11-NOVEMBER-2022
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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\sitepackages\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\sitepackages\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.