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 """

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| **->** | **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)

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| 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.