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"id": "b4dec832",
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"metadata": {},
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```
"source": [
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```
"# Import the library"
```

```
]
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},
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```
"execution_count": 1,
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"id": "cf8ff839",
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"metadata": {},
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```
"outputs": [],
"source": [
    "from keras.preprocessing.image import ImageDataGenerator"
]
},
{
    "cell_type": "markdown",
    "id": "bcfd084e",
    "metadata": {},
    "source": [
        "# Define the parameters /arguments for ImageDataGenerator class "
    ]
},
{
```

```
"cell_type": "code",
"execution_count": 2,
"id": "c62ed75c",
"metadata": {},
"outputs": [],
"source": [
    "train_datagen = ImageDataGenerator(rescale=1./255, shear_range=0.2, zoom_range=0.2, horizontal_flip=True)"
]
},
{
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    "id": "9212b05b",
    "metadata": {},
    "outputs": [],
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    "test_datagen = ImageDataGenerator(rescale=1./255)"  
]  
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    "cell_type": "markdown",  
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    "metadata": {},  
    "source": [  
        "# Applying ImageDataGenerator functionality to trainset and testset"  
    ]  
},  
{  
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```

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"metadata": {},  
"outputs": [],  
"source": [  
    "train_datagen = ImageDataGenerator(rescale=1./255, shear_range=0.2, zoom_range=0.2, horizontal_flip=True)"  
]  
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    "execution_count": 5,  
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    "outputs": [],  
    "source": [  

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```
"test_datagen = ImageDataGenerator(rescale=1./255)"  
]  
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  "outputs": [  
    {  
      "name": "stdout",  
      "output_type": "stream",  
      "text": [  
        "Found 4118 images belonging to 5 classes.\n",
```

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```
"Found 929 images belonging to 5 classes.\n"
]
}
],
"source": [
    "x_train=train_datagen.flow_from_directory(r\"E:\\Dataset\\TRAIN_SET\",target_size=(64,64),batch_size=32,class_mode='categorical')\n",
    "x_test=train_datagen.flow_from_directory(r\"E:\\Dataset\\TEST_SET\",target_size=(64,64),batch_size=32,class_mode='categorical')\n"
]
}
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        "language": "python",
        "name": "python3"
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  "codemirror_mode": {
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  },
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  "nbconvert_exporter": "python",
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  "version": "3.9.13"
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}
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},
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}
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