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```
In [1]: import os, types
import pandas as pd
from boto3.client import Config
import ibm_boto3

def __iter__(self): return 0
cos_client = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='Q-1mYlloQX_jCwgR1Z56zPwUAm7eyHj2L-6QJAZeRK',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oid/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

bucket = 'gesturebasedtoolforsterilebrowsie-donotdelete-pr-kkkcksqn5slbg'
object_key = 'keypoint.csv'

body = cos_client.get_object(Bucket=bucket,Key=object_key)['Body']
if not hasattr(body, '__iter__'): body.__iter__ = types.MethodType(__iter__, body)

df_data_1 = pd.read_csv(body)
df_data_1.head()

import pandas as pd
```

```
In [2]: pwd
```

```
Out[2]: 'C:\\Users\\MERESHIYA\\OneDrive\\Desktop\\ibm final sprint\\hand-gesture-recognition-mediapipe-main'
```

```
In [3]: dataset=pd.read_csv("keypoint.csv")
```

```
In [4]: dataset1=pd.read_csv("keypoint_classifier_label.csv")
```

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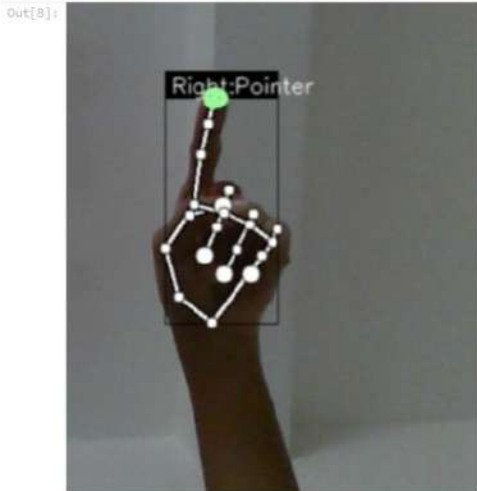
| | | | | | | | | | | | | | | |
|---------|-----|-----|-------|---------------------|-----------------------|--------------------|----------------------|-------------------|----------------------|-------------------|----------|---------------------|--------------------|----------|
| Out[9]: | 0 | 0.0 | 0.0.1 | 0.20078740157480315 | -0.051181102362204724 | 0.3661417322834646 | -0.18110236220472442 | 0.484251968503937 | -0.30708651417322836 | 0.594488188976378 | ... | 0.03937007874015748 | -0.976377952755901 | |
| | 0 | 0 | 0.0 | 0.0 | 0.206349 | -0.043651 | 0.376984 | -0.162698 | 0.507937 | -0.273810 | 0.615079 | ... | 0.047619 | -0.98011 |
| | 1 | 0 | 0.0 | 0.0 | 0.202381 | -0.043651 | 0.373016 | -0.162698 | 0.500000 | -0.277778 | 0.607143 | ... | 0.039683 | -0.98011 |
| | 2 | 0 | 0.0 | 0.0 | 0.207171 | -0.039841 | 0.382470 | -0.159363 | 0.509960 | -0.274900 | 0.617530 | ... | 0.051793 | -0.98000 |
| | 3 | 0 | 0.0 | 0.0 | 0.206349 | -0.039683 | 0.380952 | -0.162698 | 0.507937 | -0.281746 | 0.615079 | ... | 0.051587 | -0.98011 |
| | 4 | 0 | 0.0 | 0.0 | 0.206349 | -0.047619 | 0.376984 | -0.162698 | 0.503968 | -0.273810 | 0.611111 | ... | 0.051587 | -0.98011 |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 4781 | 3 | 0.0 | 0.0 | -0.257642 | -0.013100 | -0.471616 | -0.126638 | -0.624454 | -0.183843 | -0.611354 | ... | -0.379613 | -0.97370 | |
| 4782 | 3 | 0.0 | 0.0 | -0.258772 | -0.021930 | -0.473684 | -0.131579 | -0.622807 | -0.285088 | -0.609649 | ... | -0.381579 | -0.98240 | |
| 4783 | 3 | 0.0 | 0.0 | -0.271111 | -0.008889 | -0.484444 | -0.120000 | -0.631111 | -0.275556 | -0.622222 | ... | -0.373333 | -0.98220 | |
| 4784 | 3 | 0.0 | 0.0 | -0.265487 | -0.004425 | -0.477876 | -0.110619 | -0.632743 | -0.265487 | -0.623894 | ... | -0.407080 | -0.96900 | |
| 4785 | 3 | 0.0 | 0.0 | -0.256522 | -0.008696 | -0.469565 | -0.095652 | -0.621739 | -0.252174 | -0.621739 | ... | -0.373913 | -0.98690 | |

4786 rows × 43 columns

```
In [11]: dataset3
```

```
Out[11]:
```

| | Stop |
|---|-------------------|
| 0 | Clockwise |
| 1 | Counter Clockwise |
| 2 | Move |



In [9]: dataset

Out[9]:

| | | | | | | | | | | | | | |
|---|-----|-----|-----|---------------------|-----------------------|--------------------|----------------------|-------------------|----------------------|-------------------|-----|---------------------|--------------------|
| 0 | 0.0 | 0.0 | 0.1 | 0.20078740157480315 | -0.051181102362204724 | 0.3661417322834646 | -0.18110236220472442 | 0.484251968503937 | -0.30709661417322836 | 0.594488188976378 | ... | 0.03937007874015748 | -0.976377952755901 |
| 0 | 0 | 0.0 | 0.0 | 0.206349 | -0.043651 | 0.376984 | -0.162698 | 0.507937 | -0.273810 | 0.615079 | ... | 0.047619 | -0.98011 |

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