

Read Data From Different Data Files

Learning Topics



- ✓ Read CSV data
- ✓ Read excel data
- ✓ Read pickle data
- ✓ Read JSON data
- ✓ Read XML data

In this chapter we will learn how to read different types of data files by using Pandas. The first step is reading the data from data files in every data science projects. But data is always available different types of file formats. Here the *pandas* library is help us to read all types of data files.

Read CSV Data:

```
import pandas as pd

data = pd.read_csv('CSV File Path',
                  usecols = [clm_1, clm_2],
                  sep=',',
                  names = [new_clm_name_1, new_clm_name_2],
                  index_col= 2,
                  header= 1)

print(data.head())
```

Read Pickle Data:

```
import pandas as pd

data = pd.read_pickle('Pickle File Path')
print(data.head())
```

Read Excel Data:

```
import pandas as pd

data = pd.read_excel('Excel File Path',
                    usecols = [clm_1, clm_2],
                    sheet_name = 'sheet_1',
                    names = [new_clm_name_1, new_clm_name_2],
                    index_col= 2,
                    header= 1)

print(data.head())
```

Read JSON Data:

```
import pandas as pd

data = pd.read_json('JSON File Path')
print(data.head())
```

Read XML Data:

```
import pandas as pd

data = pd.read_xml('XML File Path')
print(data.head())
```