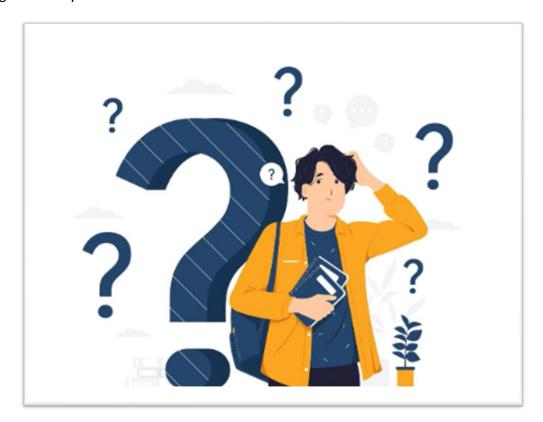
How to import data from various sources using Pandas

Introduction

The first step of any data science project is to import the data from the given source. In this article, you will learn how to import data from Four diverse sources into Jupyter notebook using Pandas-Python.



1. CSV file

To import csv to Jupyter notebook, you have two options:

i. Upload the csv file into Jupyter notebook then import it using pandas.

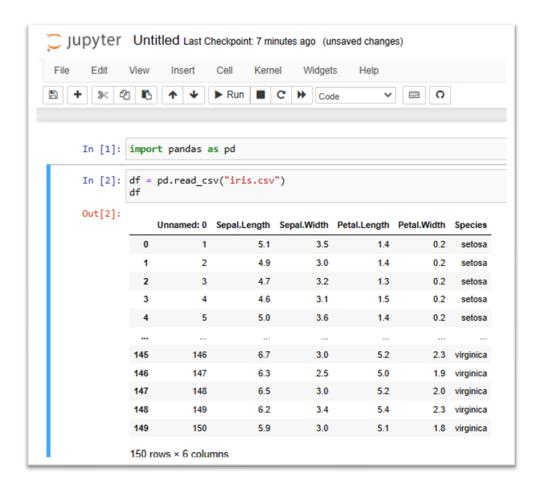




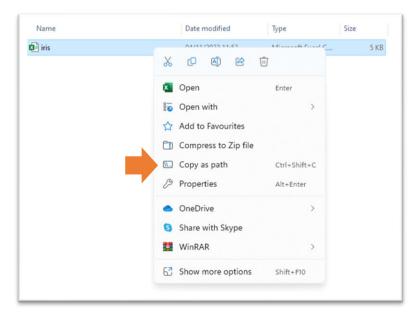
Click upload button. Select the csv file you want to upload here I am uploading "iris.csv" file. You can find this dataset from Kaggle and UCI website, then click blue upload button. Done! Is not simple!!! Next



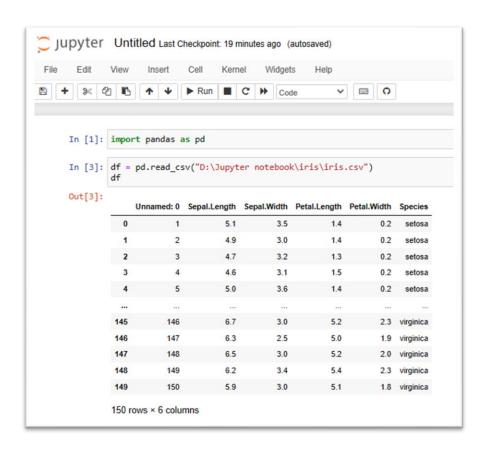
Click "New" button and select Python 3(ipykernel). New Kernel page will open, now Import pandas, and read the CSV file using pandas (pd. read_csv).



ii. Another way is to copy the path of the csv file and import it in Jupyter notebook using pandas. Right click on the csv file and select 'copy the path' option.



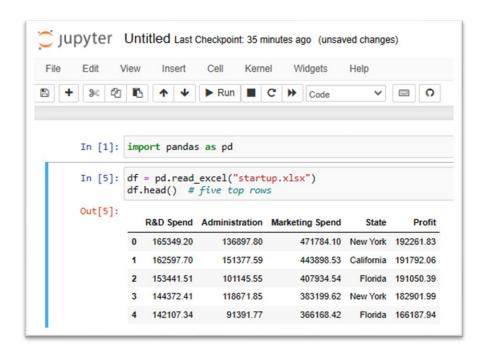
Insert that path link into "pd. read_csv" command as show below and run the command.



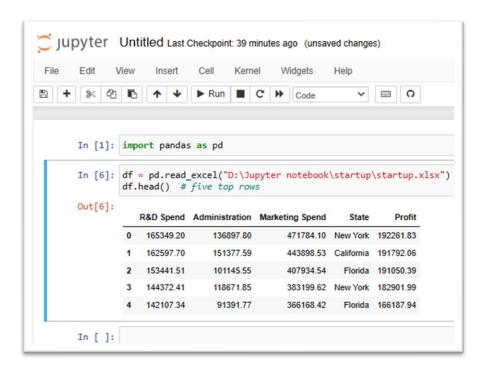
2. Excel workbook (.xlsx) file

To import excel workbook to Jupyter notebook, you have two options:

I. Uploads excel workbook same way we have uploaded csv file then import pandas and read xlsx file using pandas pd. read xlsx).

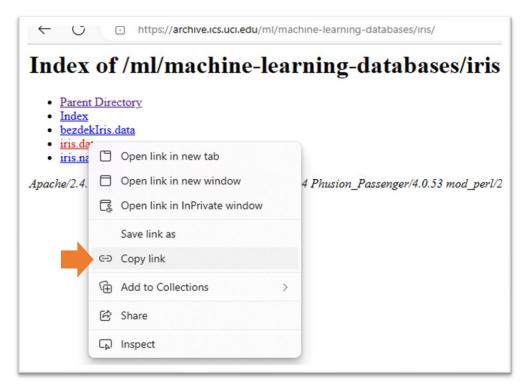


II. Another way is to copy the path of the .xlsx file and import it in Jupyter notebook using pandas, same way we have done with csv file.

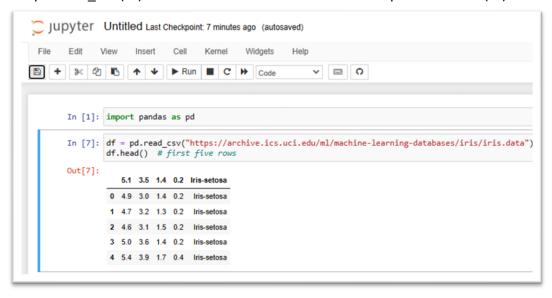


3.Import data from a URL.

Here, I am getting "iris data" from UCI website (<u>Index of /ml/machine-learning-databases/iris (uci.edu)</u>). For this right click on the "iris data" and copy link.



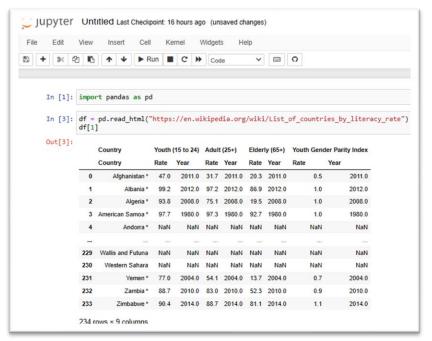
Read the data file via that link in the Jupyter notebook. If the data set is csv file, then use "pd. read_csv ("")" and if it is an "excel workbook" use "pd. read excel ("")."



4. Import data from a website.

Here, I am getting a data(table) from a Wikipedia website by turning it to pandas data frame (pd. read_html). Just copy and use the https link.





Conclusion

Data Science is the need of today's time. Many people are switching their career to data science like me. Most of the datasets are either csv file or excel workbook file. This article is helpful for beginners in their first step of any data science project that is, how to import data in their Jupyter notebook using pandas-python.

Reference

- 1) Index of /ml/machine-learning-databases/iris (uci.edu)
 Creator: R.A. Fisher, Donor: Michael Marshall (MARSHALL%PLU@io.arc.nasa.gov) Date: July 1988
- 2) List of countries by literacy rate Wikipedia