Master Data Analysis with Python

Please read all of this document first before starting this course.

Python Installation and Jupyter Notebooks

In order to run all of the code in this course, you must install the correct software onto your machine and configure it properly. You have access to a course titled **Python Installation and Jupyter Notebooks**. Go to the Dunder Data library to access that course. **Complete that entire course first.**

Exercise Python

After completing **Python Installation and Jupyter Notebooks**, complete the course Exercise Python. If you already have a solid foundation of the fundamentals of Python, you may choose to skip Exercise Python. If you do not have access to Exercise Python and have little to no Python experience, you will need to find a source to learn Python on your own first.

Starting Master Data Analysis with Python

Once you have completed **Python Installation and Jupyter Notebooks** and **Exercise Python**, you are ready to start this course, **Master Data Analysis with Python**. This course is composed of the following 11 parts:

1. Intro to pandas
2. Selecting Subsets of Data
3. Essential Series Commands
4. Essential DataFrame Commands
5. Data Types
6. Grouping Data
7. Time Series
8. Regular Expressions
9. Tidy Data
10. Joining Data
11. Visualization

Each part of the course contains multiple Jupyter Notebooks that you need to work through to complete. Begin by launching the Jupyter Notebook application and navigating to the **01. Intro to pandas** folder. Open the notebook **01. What is pandas.ipynb** to start the course.

Exercises and Solutions

Nearly all of the notebooks have exercises at the end. Detailed solutions for every exercise are found in the **Solutions.ipynb** notebook in each part.

PDF of all contents

A PDF of all of the contents of the course is available in the **Book** directory. A separate PDF for the solutions is also available.

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Master Data Analysis with Python represents over 1,500 hours of work reading, writing, coding, and teaching. I have worked extremely hard to put together a comprehensive text that teaches the Python data science ecosystem as best as humanely possible. Please only use the contents of these files if you have paid for their use from the Dunder Data website.