



Basic Machine Learning: Data Loading

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Goal

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To understand how to load and briefly process data with Pandas DataFrame

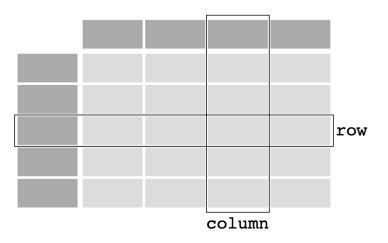
- 1. Load datasets
- 2. Explore data
- 3. Describe Data
- 4. Edit Data



Pandas is a fast, powerful, flexible and easy to use open source data analysis and manipulation tool, built on top of the Python programming language.

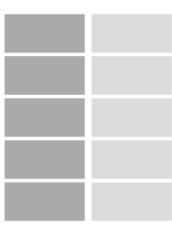
pandas data table representation

DataFrame



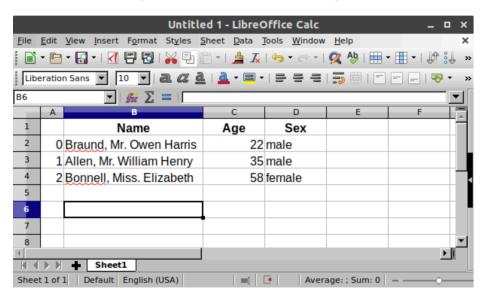
Each column in a DataFrame is a Series. When selecting a single column of a pandas DataFrame, the result is a pandas Series.

Series



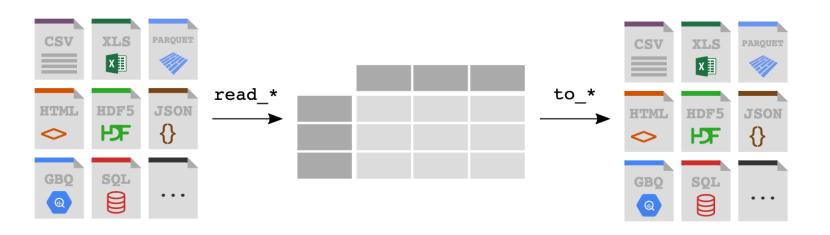
A DataFrame is a 2-dimensional data structure that can store data of different types (including characters, integers, floating point values, categorical data and more) in columns. It is similar to a spreadsheet, a SQL table.

In spreadsheet software, the table representation of our data would look very similar:



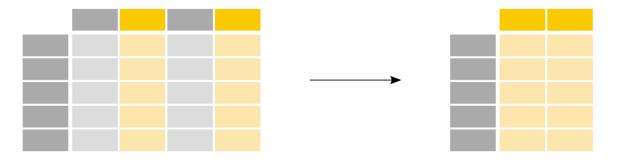
By using Pandas, we can work efficiently with the following type of tabular data:

- 1. CSV file
- 2. JSON file
- 3. Txt file
- 4. Excel file
- 5. Many others



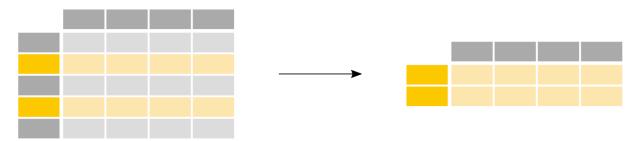
By using Pandas, we can read and write the value of the tabular data such as selecting, editing and removing specific value of the specific columns and rows.

How do I select specific columns from a DataFrame?



By using Pandas, we can read and write the value of the tabular data such as selecting, editing and removing specific value of the specific columns and rows.

How do I filter specific rows from a DataFrame?



Thanks!