Welcome!

Basic Machine Learning Mentorship Batch 5

Indonesia AI

Mentorship Information

1. Class will be held every **Saturday and Sunday** for 4 weeks start from March 13, 2021 at **13.00 pm**
2. Please join the class on time or give confirmation if you're late or can not attend the class
3. To accomplish mentorship program and get certificate, absence, assignment and final project is crucial
4. Be active and respect other during the class. Enjoy the process to learn!

Mentorship Agenda

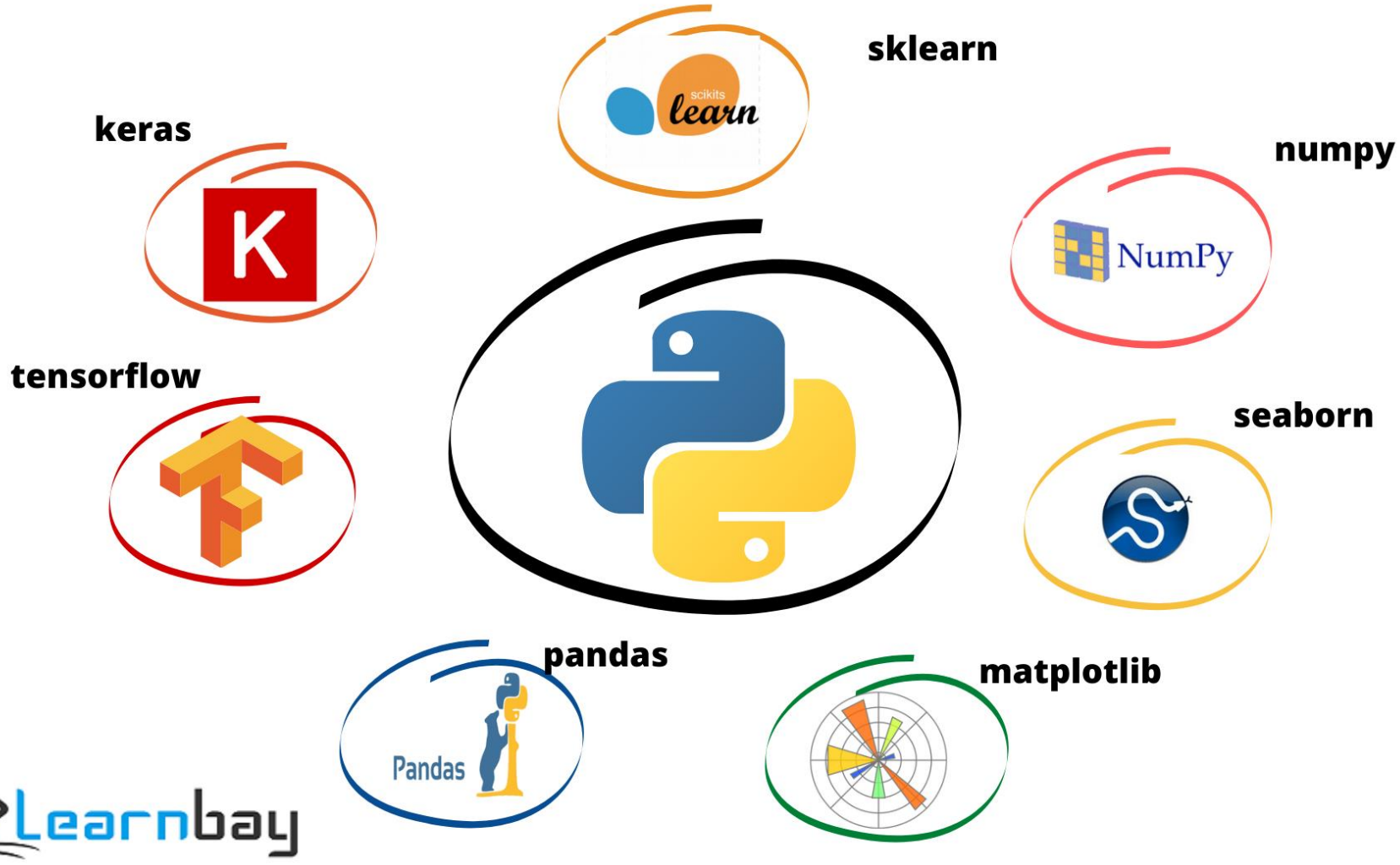
Pert 1 : Data Loading	Pert 5 : Machine Learning – SVM
Pert 2 : Data Visualization	Pert 6 : Machine Learning – Random Forest
Pert 3 : Data Preprocessing	Pert 7 : Machine Learning – Clustering
Pert 4 : Machine Learning - Linear & Logistic Regression	Pert 8 : Final Project & Team Presentation

1. Basic Machine Learning: Data Loading

Oleh : Octika Adinda - Mentor

Goal

Python Libraries



Goal

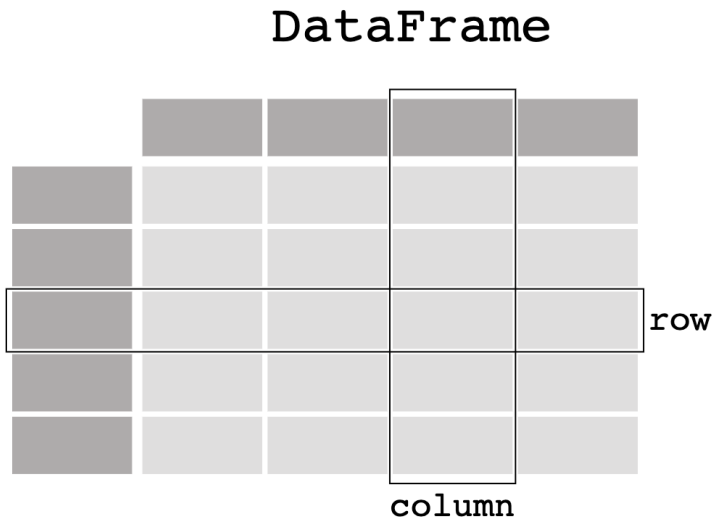
To understand how to load and briefly process data with Pandas DataFrame

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

About Pandas

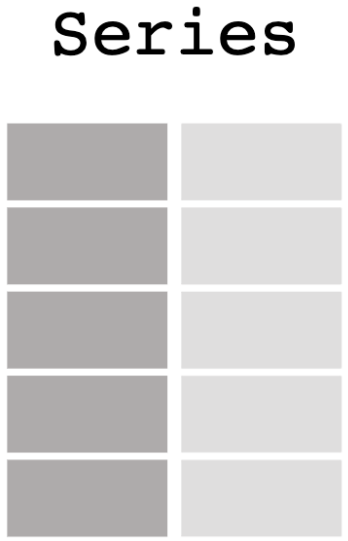
Pandas is a fast, powerful, flexible and easy to use open source data analysis and manipulation tool, built on top of the Python programming language.

pandas data table representation



About Pandas

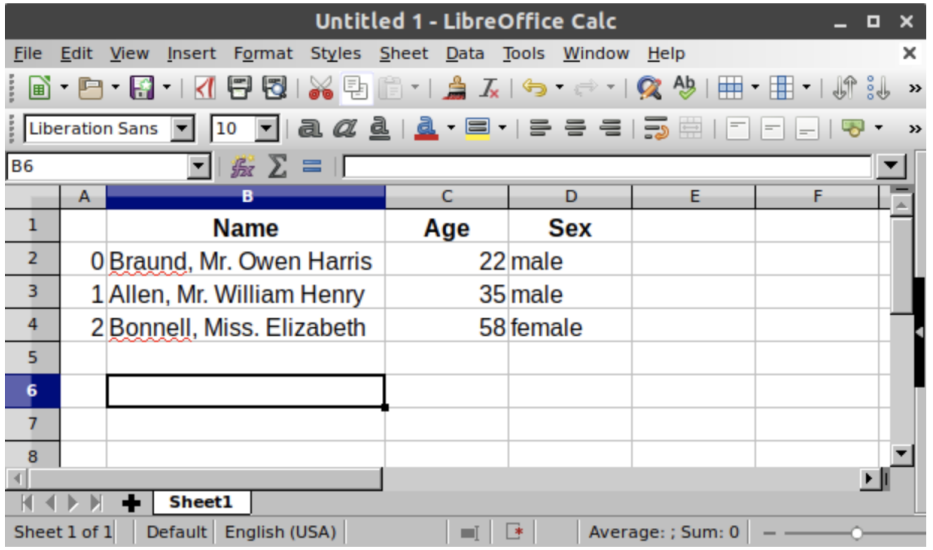
Each column in a DataFrame is a Series. When selecting a single column of a pandas DataFrame, the result is a pandas Series.



About Pandas

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.

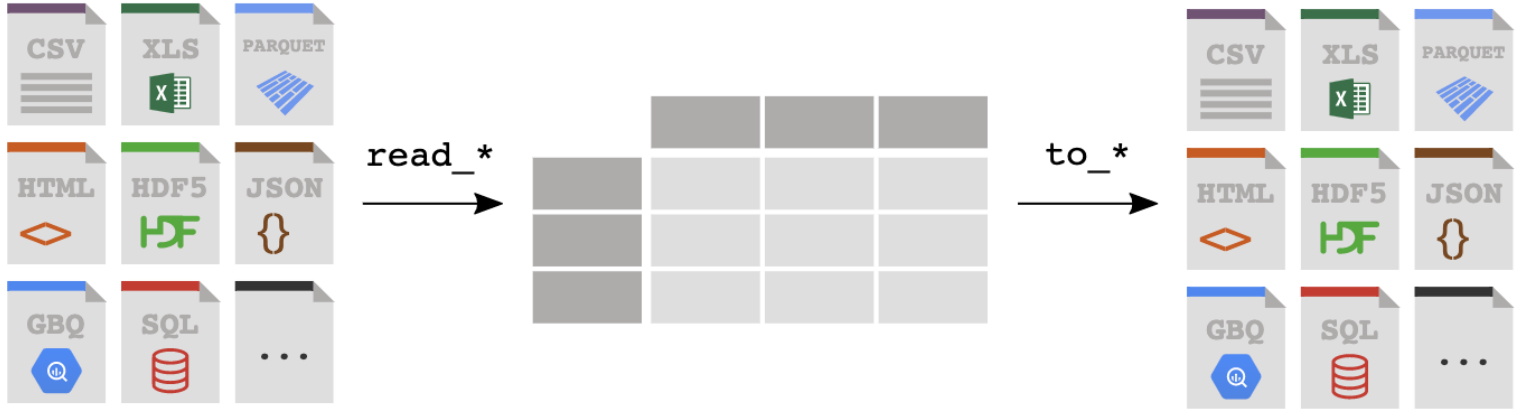
In spreadsheet software, the table representation of our data would look very similar:



About Pandas

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



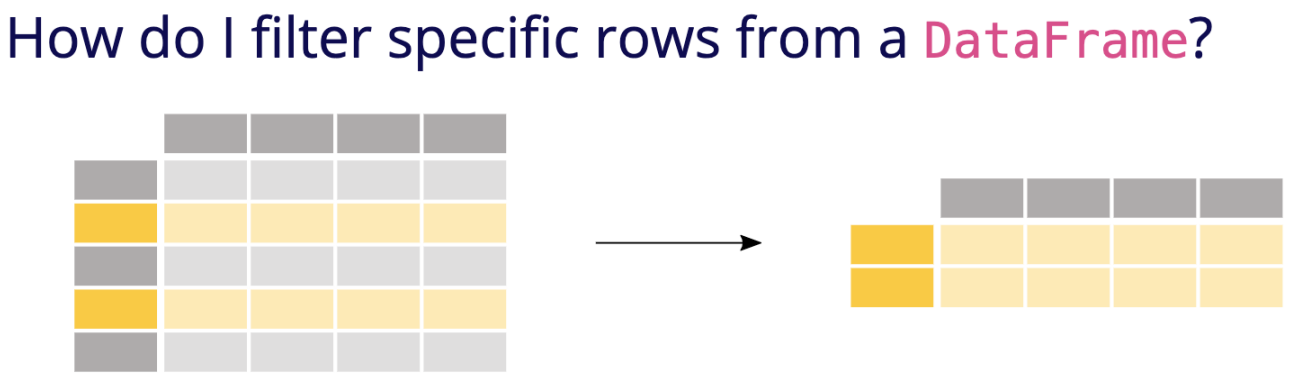
About Pandas

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`?

About Pandas

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.



Thanks!