پایتون

(Pandas)

محمد دهقانی

What is Pandas?

- **Pandas is a Python library used for working with data sets.**
- **It has functions for analyzing, cleaning, exploring, and manipulating data.**
- **The name "Pandas" has a reference to both "Panel Data", and "Python Data Analysis" and was created by Wes McKinney in 2008.**

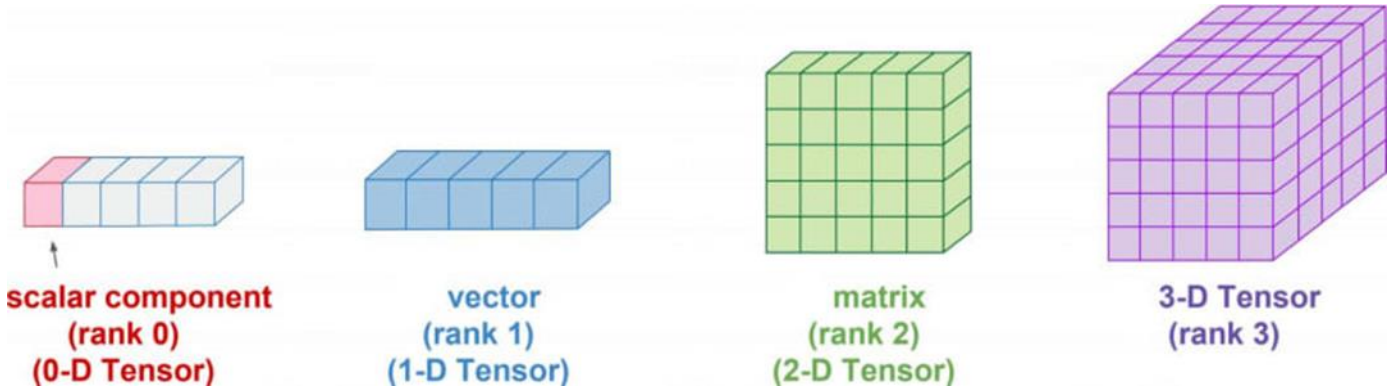
Pandas!

- **Calculate statistics and answer questions about the data, like**
  - **What's the average, median, max, or min of each column?**
  - **Does column A correlate with column B?**
  - **What does the distribution of data in column C look like?**

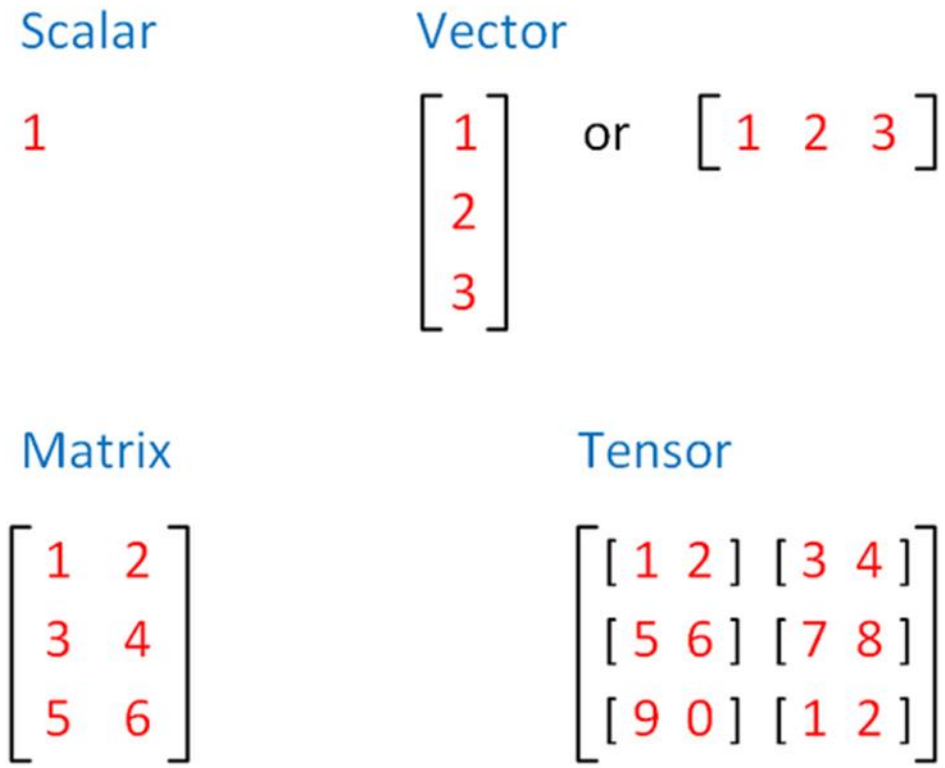
Pandas!

- **Visualize the data with help from Matplotlib. Plot bars, lines, histograms, bubbles, and more.**
- **Store the cleaned, transformed data back into a CSV, other file or database**

Pandas!


scalar component
(rank 0)
(0-D Tensor)
vector
(rank 1)
(1-D Tensor)
matrix
(rank 2)
(2-D Tensor)
3-D Tensor
(rank 3)

Pandas!


Scalar
1
Vector
1
2
3
or
1 2 3
Matrix
1 2
3 4
5 6
Tensor
[1 2] [3 4]
[5 6] [7 8]
[9 0] [1 2]

#DONTFORGETUS

آموزش های
رایگان بیشتر

www.data-hub.ir
www.t.me/data_hub_ir
www.github.com/datahub-ir
www.linkedin.com/company/data-hub-ir
www.youtube.com/channel/UCrBcbQWcD0ortWqHAlP94ug