

Objectives

OI

Describe Python data acquisition and analysis techniques

02

Analyze Python data using a dataset

03

Identify three Python libraries and describe their uses.

Read data using Python's Pandas package.

Read and Watch!

- Read the article and make notes/add to your existing notes. Compare your notes with your peers.
- Watch the short video and answer the following questions:
 - Summarize data science in two sentences. Use layman's terms.
 - ☐ Why is exploratory data analysis the most important step?
 - Explain the connection between visualization and communication.
 - Brainstorm another authentic scenario where the use of data science would result in enhanced business practice.

How much do you remember?

Test your knowledge of definitions!

Article Summary

- Python
- Lists
- Functions
- Methods

What is a Python Library?

- A Python Library is a collection of functions and methods that can be called upon without needing to write code.
- Each library houses built-in modules that provide different functionalities; all functionalities can be directly used.
- Python Data Analysis Libraries have Three Groups:
 - Scientific Computing Libraries
 - Data Visualization
 - Algorithmic Libraries

Scientific Computing Libraries

- ♦ Pandas
- ♦ NumPy
- SciPy

Data Visualization

- Matplotlib
- Seaborn

Algorithmic Libraries

- Scikit-learn
- Statsmodels