

Data Analysis Overview

Task: Understanding Data Analysis and Defining Project Scope

Explanation: In this module, you will recall the fundamentals of data analysis and the different types of analysis, including supervised and unsupervised learning you mastered in the specialization [Data Analysis with Python](#) . You will define the scope and direction of your data analysis project.

Associated Courses (if you haven't taken them or mastered the skills):

- 1. [Classification Analysis](#)
- 2. [Regression Analysis](#)
- 3. [Clustering Analysis](#)
- 4. [Association Rules Analysis](#)

Instructions:

- 1. Introduction to Data Analysis: Understand the concept of data analysis, its importance, and how it plays a crucial role in making data-driven decisions.
- 2. Supervised and Unsupervised Learning: Differentiate between supervised and unsupervised learning approaches. Understand when to use each method based on the project's objectives.
- 3. Defining Project Scope: Choose a real-life project of your interest that involves data analysis. Define the specific objectives and goals you aim to achieve through this project.
- 4. Choosing/collection Project Dataset: You will collect data and process it to be ready for analysis (Please take our [Data Wrangling Specialization](#) if you are not familiar with it). You can also choose a dataset via the following sources, and work from there. Please note that not every dataset is appropriate for ALL analysis, so you may choose a dataset that fits most of them, and change a dataset if it doesn't fit.
 - a. [UCI Machine Learning Datasets](#)
 - b. [Registry of Open Data on AWS](#)
 - c. [Rdatasets](#)
 - d. [Kaggle](#)
 - e. [NYC Open Data](#)
- 5. Project Direction: Explore various data analysis directions and techniques that align with your project scope. Identify potential challenges and opportunities for each direction.

Go to next item ✓ Completed

