

STUDY GUIDE

WHAT IS DATA SCIENCE?

Key Terms and Definitions

- » **Data Science:** An interdisciplinary, problem-solving-oriented framework comprising a set of tools and techniques used to extract useful information from data, as well as an application of scientific techniques to practical problems.
- » **The Data Science Workflow:** The process used to work through and complete data science projects, made up of the following steps:
 - **Frame:** Develop a hypothesis-driven approach to your analysis.
 - **Prepare:** Select, import, explore, and clean your data.
 - **Analyze:** Structure, visualize, and complete your analysis.
 - **Interpret:** Create recommendations and business decisions from your data.
 - **Communicate:** Present insights from your data to different audiences.



- » **Data Dictionary:** Describes the types and content of a data set.

Guiding Questions

1. Why is the data science workflow said to be "nonlinear?"
2. Why is it helpful for a data scientist to have subject matter expertise?
3. Give an example of a framing question for a data science project relevant to your work.