**PRACTICAL DATA ANALYSIS  
WITH PYTHON AND R**  
A HANDS-ON GUIDE  
  
  
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2025 Edition

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# Chapter 1: What is Data Analysis?

Data analysis is the systematic process of inspecting, cleaning, transforming, and modeling data   
with the goal of discovering useful information, informing conclusions, and supporting decision-making.  
This book focuses on practical, hands-on approaches using Python and R.

# Chapter 2: Getting Started with Python and R

Python and R are the most widely used languages for data science.  
Python excels at automation, integration, and readability, while R is powerful for statistical modeling and visualization.