

Statistics Essentials for Data Science



Course Introduction

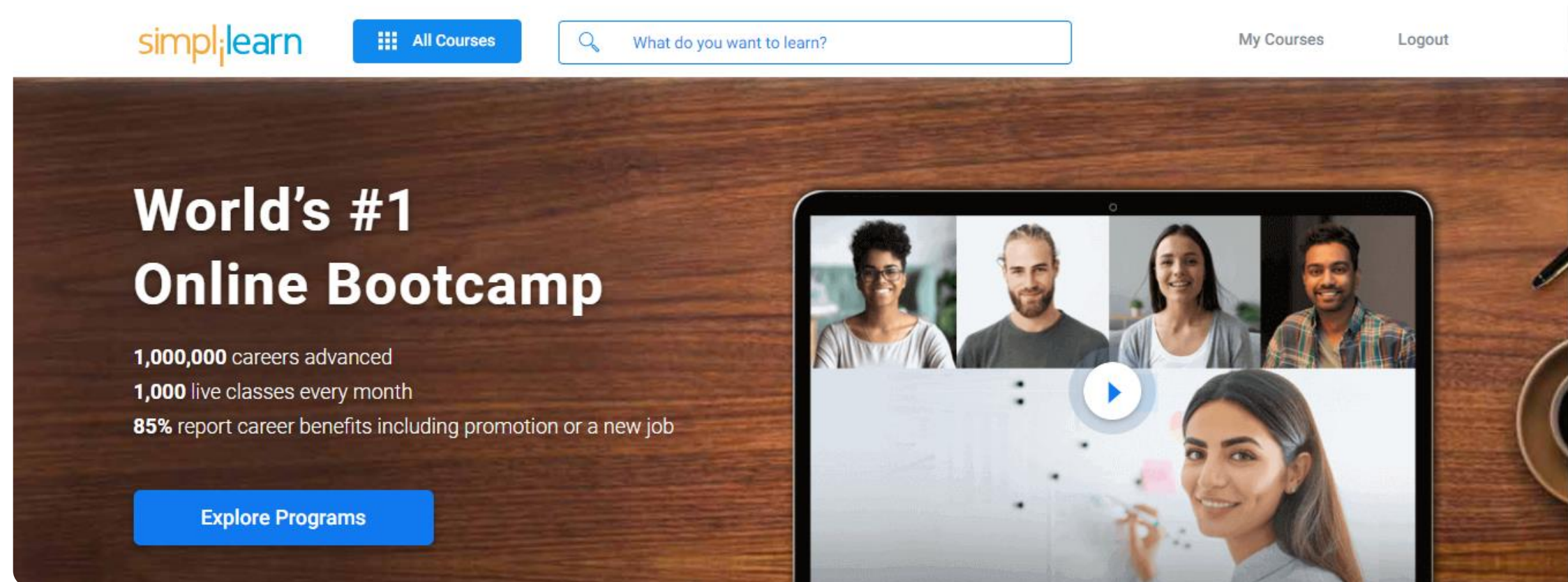




About Simplilearn

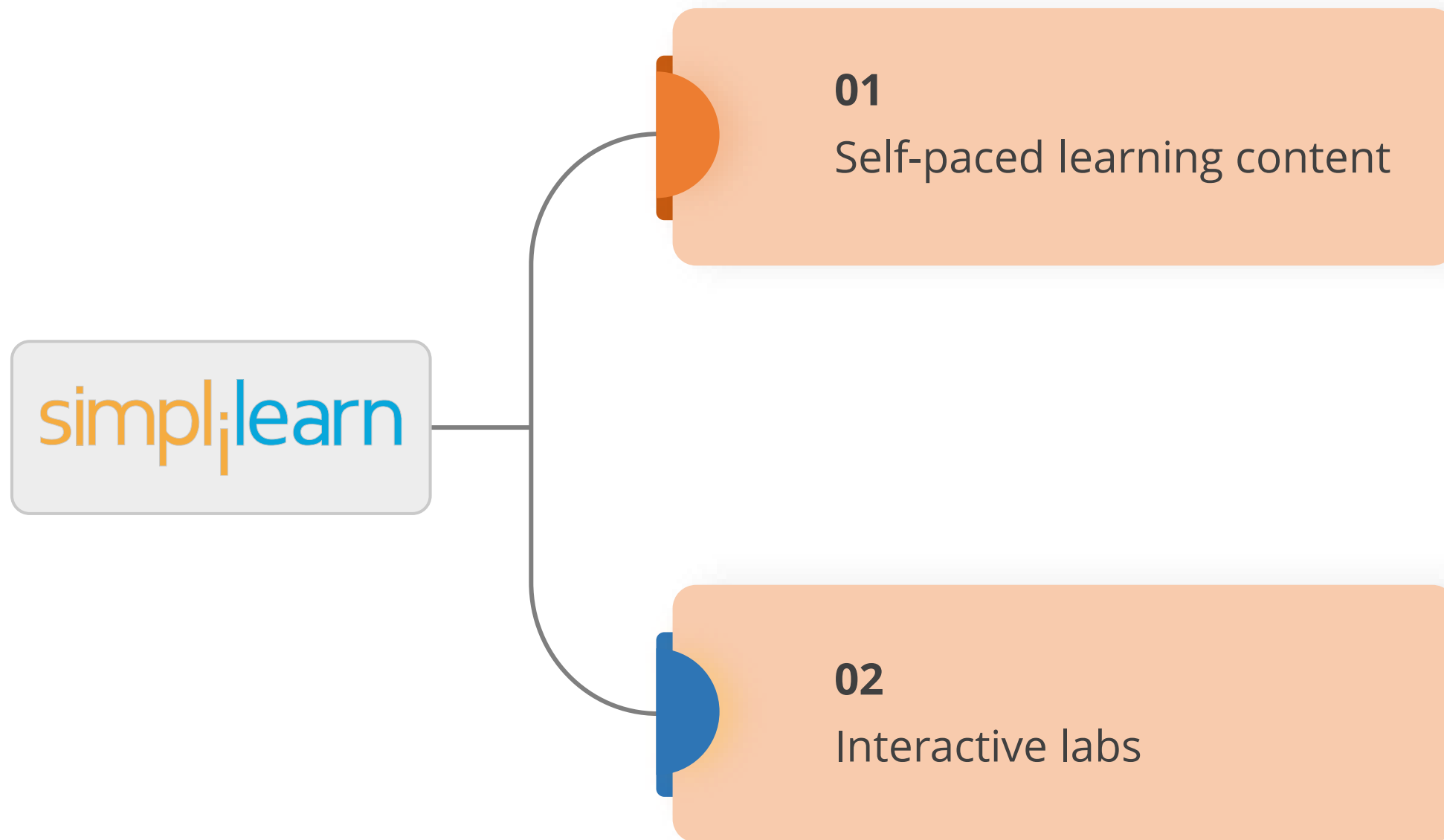
Simplilearn

Simplilearn has focused on digital economy skills for over a decade.



Now, Simplilearn has become the world's #1 Online Bootcamp.

Simplilearn





Introduction to Statistics

Statistics

Statistics is a mathematical discipline that deals with the collection and analysis of data.



Importance of Statistics



- Statistics assists in making informed decisions based on derived insights, and it also deals with all aspects of data.
- It is useful for anyone who works with data and wants to perform analysis for large or small enterprises.
- It can predict future events and behaviors.

Importance of Statistics

Analytics helps form observations and hypotheses, whereas statistics helps test them.



Analytics



Statistics

Course Prerequisites

There are no prerequisites, but a fundamental understanding of mathematics would be advantageous.

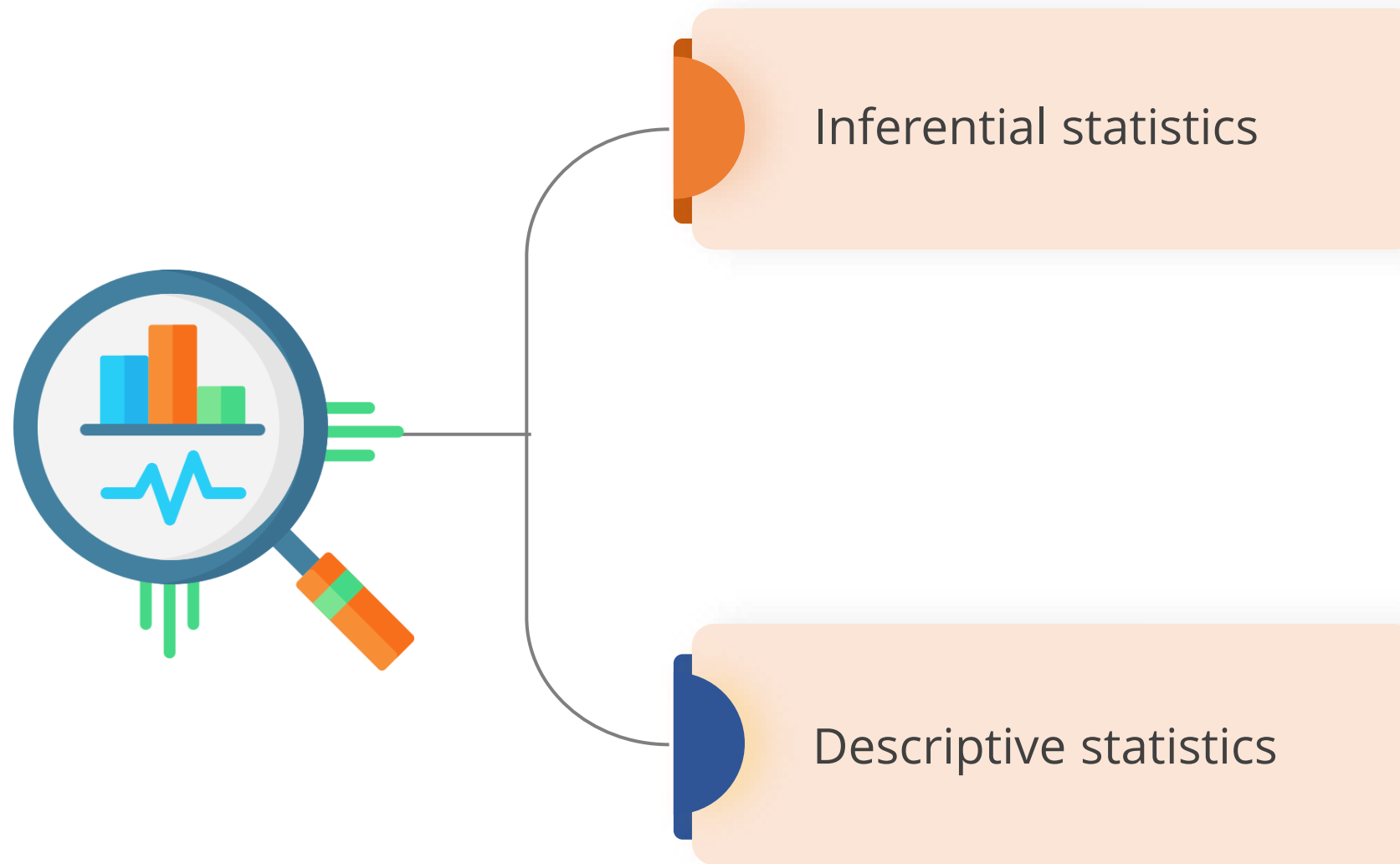




Skills You Will Learn

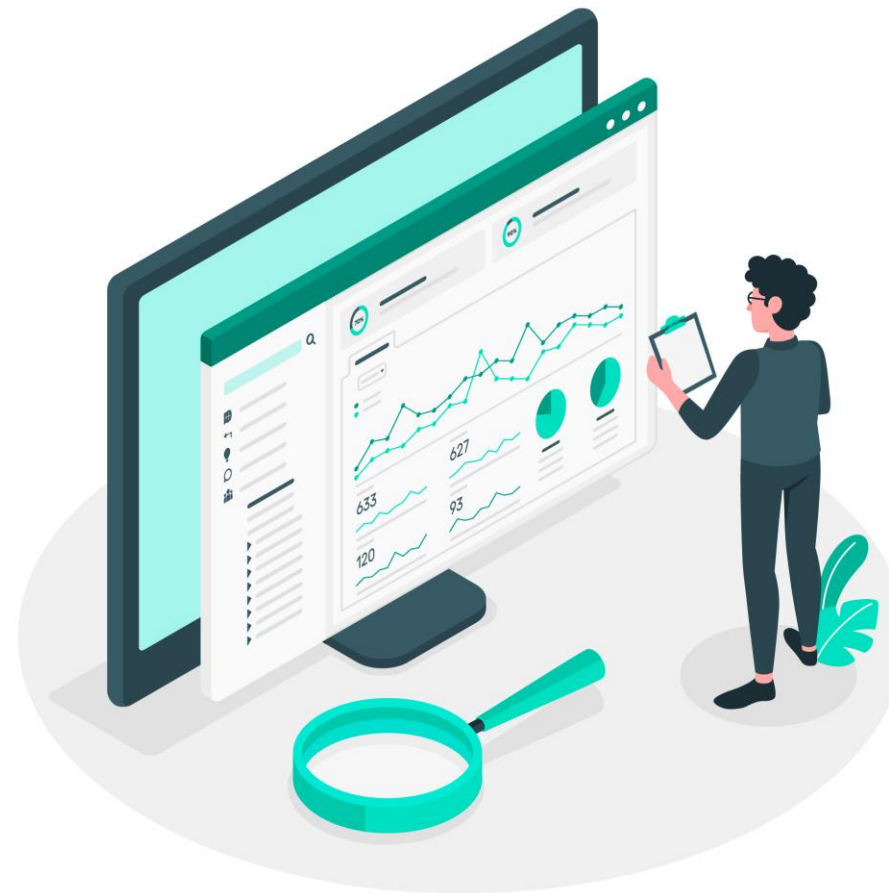
Skills You Will Learn

Learn the basic tenets of statistical analysis, including:



Skills You Will Learn

Deal with the numerous potential outcomes of events by using the statistical concept of probability



Explore various business applications of statistics using sampling, inferential, and probabilistic methods

Skills You Will Learn

A thorough understanding of data:



Types of data



Visualization and usage of data



Data insights

Course Outcomes

After completing the course, one will be able to:

Conduct data analysis



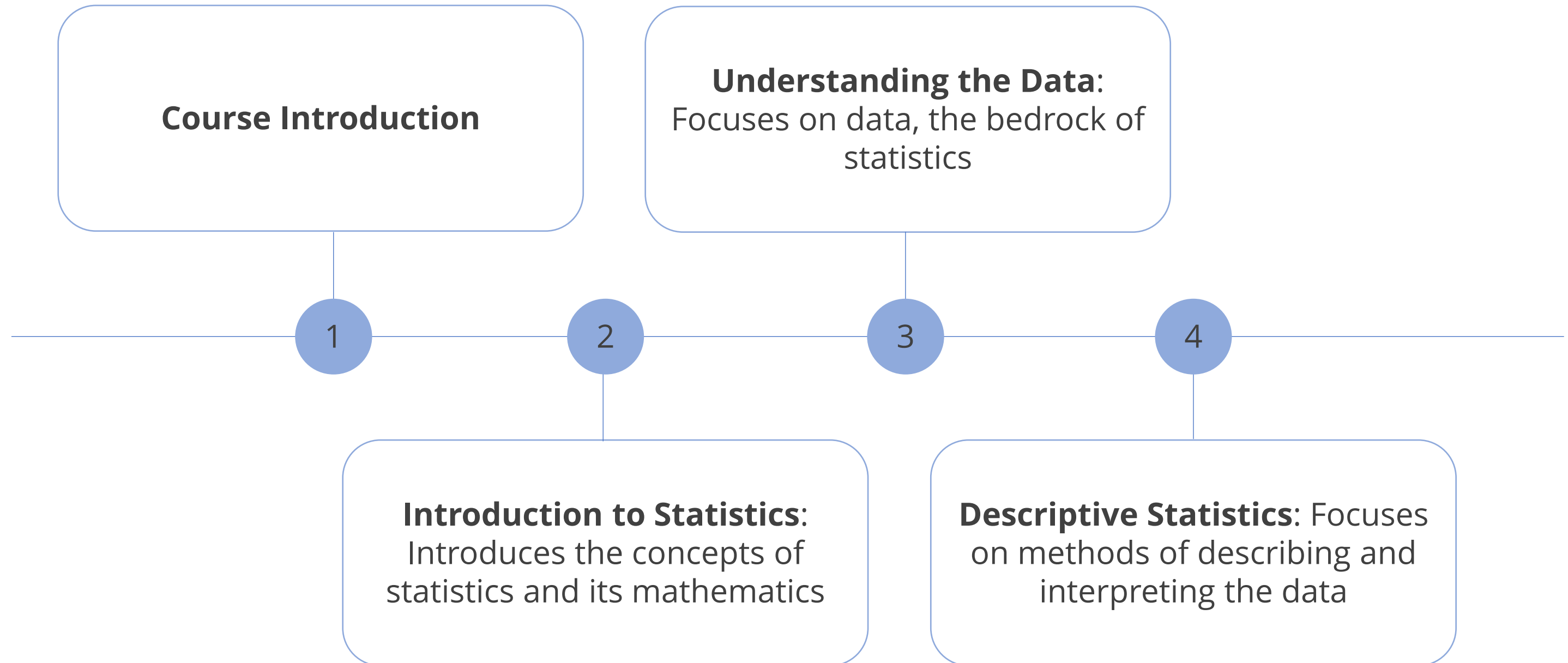
Make informed decisions



Learning Path

Course Outline

This course is divided into 11 lessons:



Course Outline

This course is divided into 11 lessons:

Data Visualization: Focuses on data visualization types and the discovery of insights through visual analysis

5

Probability Distribution:
Focuses on analyzing probabilities of all possible outcomes

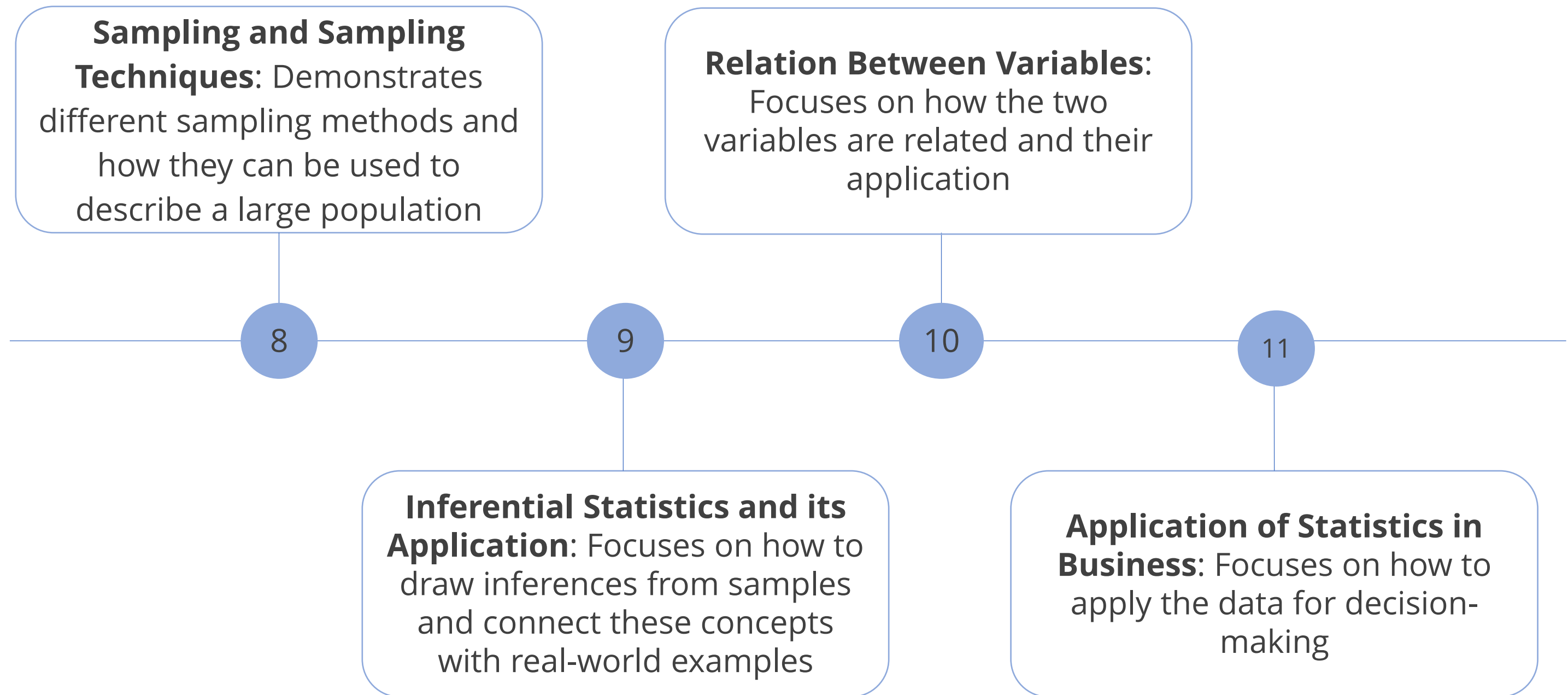
7

6

Probability: Focuses on the nuances of probability and its applications in data science

Course Outline

This course is divided into 11 lessons:

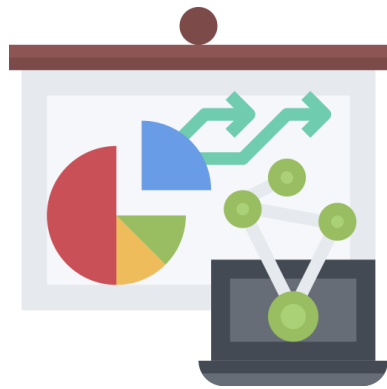




Course Components

Course Components

The program comprises:



1 Lesson-end
project



53 Knowledge
checks



2 Spotlight
videos

Course Components

The program comprises:



1 Assisted
practice



4 Case
studies

Course Completion Criteria

One must go through at least 85% of the online self-paced videos and complete the assessments.





Thank You