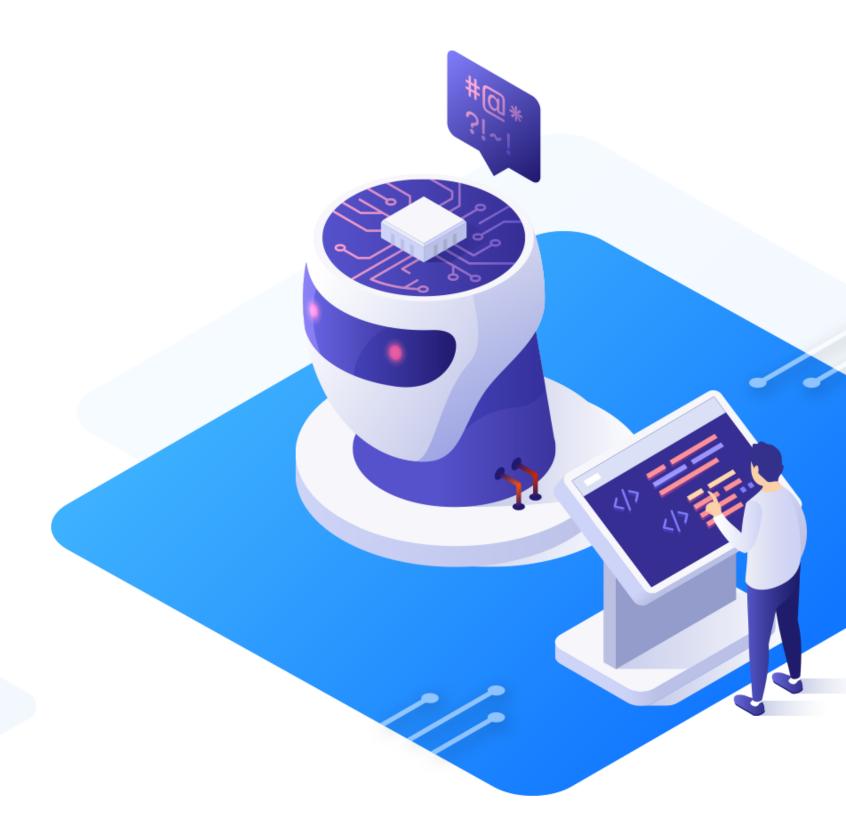
**Applied Data Science with Python** 



# **Course Introduction**



#### **Introduction to Data Science:**

Focuses on the basics of data science and its applications. This course also covers data science packages that will further help you grasp the concepts. **Pandas:** Focuses on the concepts of data science and data analysis, including types and structures, using Pandas functions.

**NumPy:** Focuses on the concepts of NumPy and its uses

**Data Visualization:** Focuses on visualization techniques and different types of charts

**Probability Distribution:** 

Focuses on the different aspects of probability and the various types of probability distribution

4

5

6

Math and Statistics
Fundamentals: Focuses on the fundamentals of statistics, its types, and data categorization, and the concepts of scalar, vector, and matrix

Advanced Statistics: Focuses on the concepts of probability and advanced statistics, such as hypothesis testing

Feature Engineering: Focuses on feature engineering techniques like, data imputation, scaling, binning, and grouping operations

7

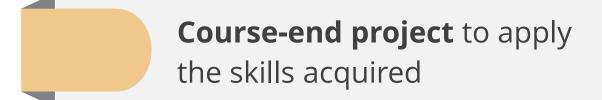
8

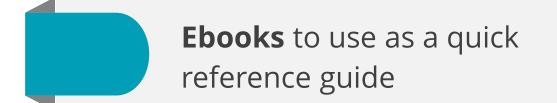
**Data Wrangling:** Focuses on rearranging, cleaning, and refining raw data to prepare it for model building

**Course Components** 

## **Program Components**







Let's get started!