Python visualisations – Lesson overview

Harnessing the power of **data visualisation** in Pandas is instrumental for **efficient data analysis** and **interpretation**.
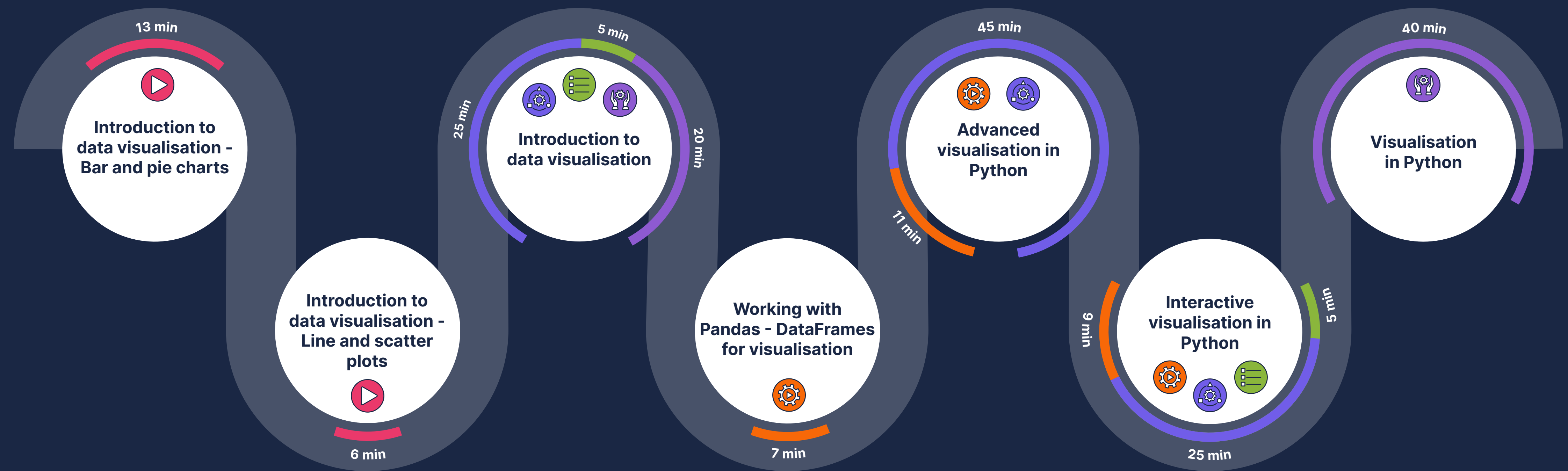
In this lesson, we will navigate the core **principles** of **data visualisation** using **Python's Matplotlib** and **Pandas libraries**. Starting with foundational tools like **bar graphs** and **pie charts**, we will explore their significance in representing **categorical** and **proportional data**. Subsequently, we will delve into **line graphs** and **scatter plots**, mastering the art of coding **time series representations** and **identifying variable relationships**. Through the **integration** of **Seaborn** and **Matplotlib**, we will enable the creation of **sophisticated visualisations** and **interactive techniques**, ensuring a well-rounded proficiency in **data visualisation** with **Pandas**.

▶ Video	⚙ Examples
☰ Knowledge questions	🖐 Exercise
⚙ Walk-through	

13 min — Introduction to data visualisation - Bar and pie charts

6 min — Introduction to data visualisation - Line and scatter plots

5 min / 25 min / 20 min — Introduction to data visualisation

7 min — Working with Pandas - DataFrames for visualisation

45 min / 11 min — Advanced visualisation in Python

9 min / 25 min / 5 min — Interactive visualisation in Python

40 min — Visualisation in Python

Learning objectives

- Master the fundamental data visualisation tools in Python.

- Create customised bar graphs, pie charts, and scatter plots using Matplotlib.

- Implement diverse plotting techniques, distinguish between graph types, and choose optimal representations.

- Implement fundamental DataFrame operations for efficient data preparation.

- Analyse visualisations to extract meaningful insights.