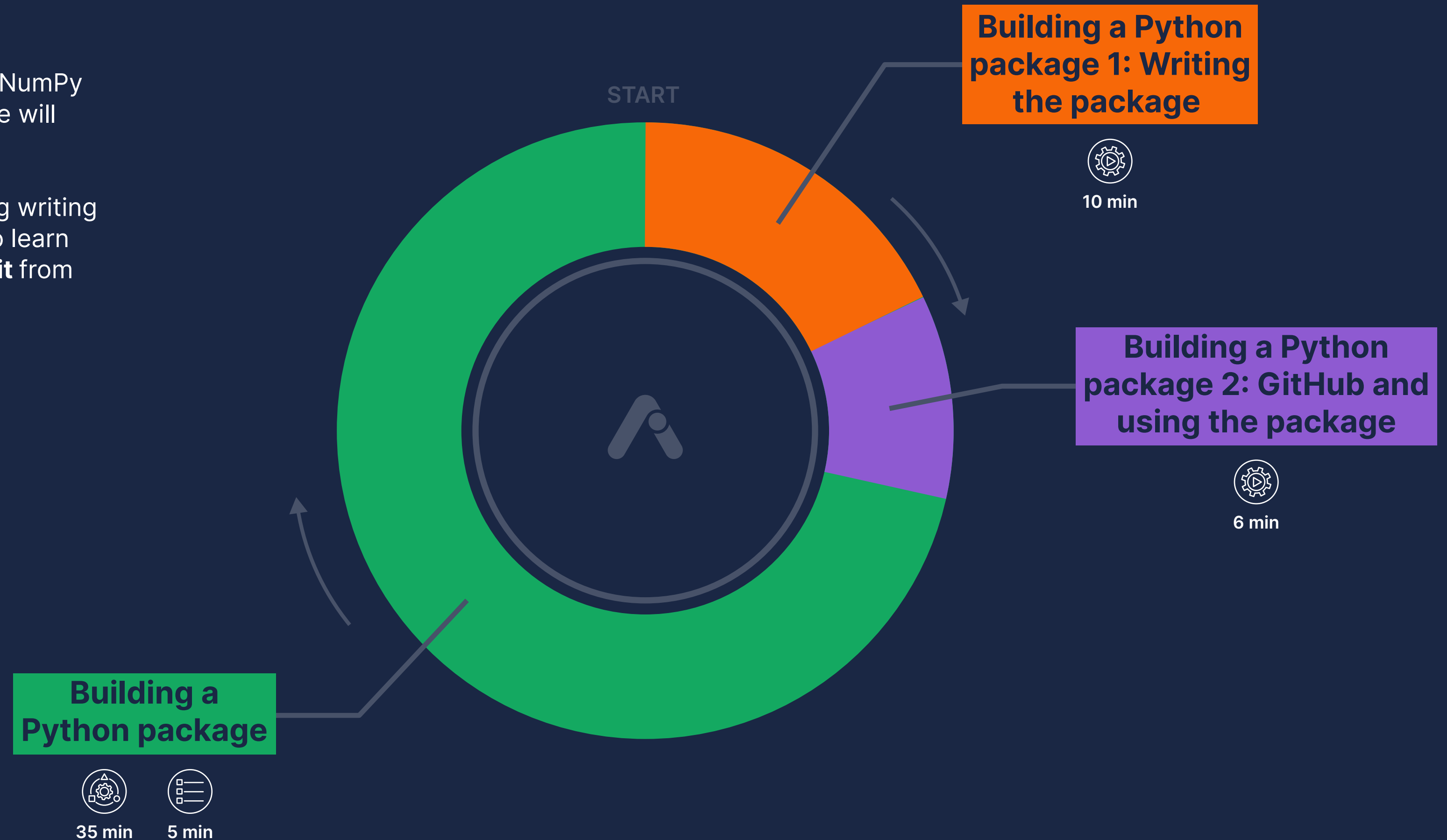# **More advanced Python** - Lesson overview

Python is **open-source** in nature which means that users can contribute to its expansive ecosystem. It provides a collaborative environment that **allows for the creation of specialised packages** to enhance functionality and streamline complex tasks.

As a Data Scientist, we've encountered powerful packages like NumPy and Pandas, which are pivotal in data analysis. In this lesson, we will **learn how to build our own package** and share our solutions.

We will look at the steps involved in **package creation**, including writing code and setting up the necessary supporting files. We will also learn how to **distribute our package online** using GitHub and **install it** from anywhere.

Learning objectives

- Understand how to create a Python package and set it up locally.

- Learn how to use Git and GitHub to distribute the package to the cloud.

- Understand the process of installing a package from a remote GitHub repository.

- Learn how to make updates to the package to create different versions.

START

Building a Python package 1: Writing the package

10 min

Building a Python package 2: GitHub and using the package

6 min

Building a Python package

35 min   5 min

⚙ **Walk-through**   ▤ **Knowledge questions**

⚙ **Examples**