**TDD in Python**

* 1. **Pre-requisites**
* Latest or recent installation of Python, at least v3.12
* Latest or recent installation of Pycharm Community Edition, at least 2024
* Working knowledge of Python, including packages, modules, user functions, flow control.
* Some knowledge of OOP, preferably with Python but can be from other languages such as Java/C#.
* Some knowledge of Unit Testing is preferable, but is covered at start of workshop.
  1. **Course Outline**
* Document Testing in Python
* Unit Testing in Python
  + Assert statement
  + Unittest module
  + How to structure packages and tests?
* Test Driven Development
  + Red
  + Green
  + Refactor
* Anatomy of a Unit Test
  + Arrange
  + Act
  + Assert
* Test Doubles
  + Stubs
  + Mocks
* Working with Untestable Code and Legacy Code
* Mutation Testing