

Overview of PyTest

In this lecture I'm going to give you an overview of PyTest. I'll explain exactly what it is and go over its major features. Then I'll show you a quick example.

What is PyTest?

- PyTest is a python unit testing framework.
- It provides the ability to create Tests, Test Modules, and Test Fixtures
- Uses the built-in Python assert statement
- Has command line parameters to help filter which tests are executed and in what order.

- So what is PyTest?
- PyTest is a python unit testing framework.
- It provides the ability to create Tests, Test Modules, Test Classes, and Test Fixtures.
- It uses the built-in python assert statement which makes implementing unit tests much simpler than other frameworks.
- It also adds many useful command line arguments to help specify what tests should be run and in what order.

Creating a Test

```
# test_SomeFunction.py  
def test_SomeFunction():  
    assert 1 == 1
```

- Tests are python functions with “test” at the beginning of the function name.
- Tests do verification of values using the standard python assert statement.
- Similar tests can be grouped together by including them in the same module or class.

- How do you create a unit test in Python with Pytest?
- In pytest, individual tests are python functions with “test_” at the beginning of the function name.
- The unit tests then execute production code and use the standard python assert statement to perform verifications on results.
- Similar tests can be grouped together by including them in the same module or class.
- Lets look at a quick example.