

Software Engineering for Data Scientists (Python)

Understand software engineering principles that will facilitate collaboration with engineering teams and help bring your research all the way to production.

Code quality

Learn what makes for high-quality code, and how to improve the quality of existing code.

Testing

Learn to write and run unit and integration tests for you code and models.

Packaging and continuous integration

Package your code and set-up continuous integration to easily publish updates.

	Day 1	Day 2	Day 3	Day 4
09:00				
	Introduction	Testing – unit & integration	OOP – patterns & anti-patterns	Setting up and working with CI
	Code quality aspects Less is more; readability; docs; modularity; style (linters)	Code reviews		Creating documentation
	Code smells	Practice session #2 Testing	Packaging code	Practice session #5 CI and documentation
	Practice session #1 Refactoring	Practice session #3 Code reviews	Practice session #4 Packaging code	
17:00				Closing remarks

Prerequisites:

- Python programming