

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

Prerequisites:

- Python programming