Transitioning from Academia: Developing a Career with Python

Monday 27 November 2023 - Wednesday 29 November 2023

Building 46g, DESY

Program

• **Day 1** Introduction to Essential Python Skills:
You will receive a brief introduction to essential Python programming skills and toolboxes needed for work outside academia, including:

o Advanced data analysis and visualization with Pandas and Seaborn
o Machine learning with Scikit-Learn and PyTorch
o Exploring free and open data repositories
o Creating interactive dashboards
o BONUS: Web Frameworks

• **Day 2** Advancing Coding Skills with AI Tools :
Practice enhancing your coding skills using AI tools, e.g., ChatGPT and Github Copilot, and other resources and delve into real-world problems that improve your coding proficiency.

• **Day 2** Good Coding Practice for Collaboration:
Learn how to collaborate on larger projects by employing good coding practices, such as version control with Git and Github, and utilizing virtual environments.

• **Day 3** Portfolio and Showcase Project Development:
Begin developing your portfolio with a showcase project that demonstrates your skills and knowledge. This hands-on project will be your stepping stone into the industry.

• **Day 3** Discussion on Future Steps:
Engage in discussions on networking and further skill building to continue your career development journey.

• **Day 3** Project Presentation on GitHub:
Present your showcase project on GitHub, receive constructive feedback from peers, and learn how to effectively communicate your work to potential employers.