Problem Solving Using Open-Source Languages; R and Python

Week 1: Introduction to R and Python (Tuesday-Wednesday from 8:30-15:30)

Week 2: Data Manipulation and Visualization (Tuesday-Wednesday from 8:30-15:30)

Week 3: Statistical Analysis and Machine Learning (Tuesday-Wednesday from 8:30-15:30)

Weekend: Final Project, on-site (Friday-Saturday)

Learning outcomes

- Proficiency in programming with both R and Python and the ability to solve problems in both languages.
- Ability to perform data manipulation and visualization tasks using the respective tools/packages of R and Python.

- Understanding of basic statistical concepts and ability to analyze data using statistical techniques in both R and Python.

- Familiarity with the principles of machine learning, its algorithms, and its application in both R and Python.
- Ability to think critically and creatively to solve real-world problems using R and/or Python.