

LEARN CODING

ale66

Module administration



ELEVATOR PITCH

- introduce coding and Python
- focus on simple ways to develop software autonomously
- We will learn programming with Python!

- If time allows: basic Data Science methods
 - Data types and data structures
 - Conditional and loops
 - User input output
 - Text files
 - Functions
 - Data cleaning
 - Basic stats
 - Relational databases and their Structured query language (SQL)

ON MODULE COMPLETION YOU WILL BE ABLE TO:

- Write Python programs
- start personal projects
- Understand the basics of algorithms and coding
- Use different data sources
- Visualize data
- use the SQL language to query relational databases; set up and run simple databases

- hands-on Python
- basic structures, iterations & functions
- List, Dictionaries, Sets and Tuples
- Numerical functions: Numpy
- Data visualisation: Matplotlib
- Data ingestion, tables and time series: Pandas
- Intro to SQL: Structured Query Language
- Creating simple SQL databases
- writing SQL queries to extract data
- embed SQL in Python
- Developing a Case Study with Python

CLASS STYLE

- Laptops on, smartphones off
- Lectures and labs mix up seamlessly
- use the Teams channel for quick questions

INSTRUCTOR

- Dr Alessandro Proveti
- PhD on AI for simplifying programming languages
- Research on understanding user data in “Social web” platforms.
- Started the [Birkbeck Institute for Data Analytics](#)



- Dr Alberto Matuozzo
- PhD in Machine Learning for Finance at Birkbeck, UK
- Research on Machine learning in Finance



- Dr Federico Pilati
- PhD in Computational Social sciences at IULM, IT
- Post-doc at Université de Genève, CH
- Research on the emergence of online communities and misinformation

