

Basic Algorithms

Python refresher

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Who am I?

- 2010 - PhD in Turin (Italy)
 - Layering Multi-Purpose Applications over Structured and Dependable P2P Systems
- 2011 - 2017: Research Engineer @Eurecom
 - Distributed Storage
 - Network performances
- 2017 - now: Research Engineer @UniCA MSI
 - Distributed learning (Inria)
 - DNA sequencing (CHU Nice)
 - Corals (IRCAN, UDAYANA)
 - Shells (CEPAM - UniCA)
 - Knights of the Malta's Order (CMMC)
 - Teaching (Datahyking, MscDSAI)
 - Open Science (Datazur - UniCA)
 - Schizophrenia (LAPCOS - UniCA)
 - Olfactory responses (CHIMIE - UniCA)



Course Overview

- Deep dive on Python3
 - builtins
 - error handling
 - programming paradigms
 - concurrency
 - testing
- Algorithms
 - Definitions and examples
 - **Code structure**

Course Overview

- From abstraction to code structure
- Brace yourself
- REPL + scripts + notebooks
- 5 lessons
 - live sessions and exercises
- Evaluation 23-9-2025 (1h)

MANDATORY COURSE REQUIREMENTS

- Be curious, open minded
- Know how to use a laptop (OS-independent)
 - and having a correct Python installation on it
- Learn to use a shell is **A MUST**
- Work at home
- (educated) "Trial-and-Error" mindset
- Avoid LLMs (ChatGPT, Copilot, Gemini, ...)
- ~~(optional) Have some coding experience~~

Things I care about

- See progress
- See effort
- Hear questions I don't know the answer to

Things I don't care about

- LLMs
- Your last super-fancy YAML parser
- Your take on your skills on any python framework
- Your app to load Docker images on AWS

Contacts

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