Python & Data Science Training

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Who am I?

I am a consultant, technical trainer and lecturer in automation, data science and AI. My students, either at universities or companies, appreciate my hands-on approach coming from my experience at several projects across industries like financial services, marketing, and HR.

Since 2017, I have been leading workshops for 30+ clients in 10+ countries including major companies such as Shell, Renault, PwC, O'Reilly Media, O2, La Poste, as well as institutions like the European Investment Bank, the Czech National Bank, the Australian Government, and many others.

I have written a couple books on data science, supervised master and bachelor thesis and teams of data scientists as a Data Science Manager for a Big4 Consultancy. I hold a PhD in Applied Mathematics from the Sorbonne Université in Paris, with a specialization in Game Theory and Markov Decision Processes.

My mixture of industry and academic experience ensures that you can get the best of both worlds: cutting-edge technology that is also relevant to the real world.

Why is my training different?

My courses focus on practical applications that have a ***direct impact*** for the business.

I take a consultant's approach for the training: after an initial discovery call, I try to understand the concrete needs of the course participants, so that I can better tailor the content and the pacing to address those needs. If desired and allowed, I can use their own data sources as part of the examples of the different technologies / algorithms.

This makes sure that the participants of my hands-on courses:

- ✓ **Learn best practices** to stay up to date with technology.
- ✓ **Work on a project close to their day-to-day job**, which keeps them engaged and progress faster.
- ✓ **Get relevant practice: 80% hands-on practice, 20% theory.** Hands-on coding sessions to show with real examples, instead of talking about them.
- ✓ **Receive personalized feedback** and custom learning path going forward.

Important points

- ⇨ **Limited group size:** 15 participants maximum to ensure that I can take care of everyone's needs.
- ⇨ **Custom syllabus:** The final syllabus is always agreed upon after our discovery call.
- ⇨ **Online or onsite:** Travelling within Europe ok (50% above base rate).
- ⇨ **Flexible schedule:** half-days of training possible (20% above base rate).

Testimonials

Working with Pablo was a positive experience. Thanks to his vast knowledge and expertise in Data analytics he can grasp new business problems very fast. His approach is very thorough, and he pays high attention to detail. And on top of that, Pablo is a nice person with a positive attitude, who can convey his experience and ideas with ease.

Jakub Linhart, Chairman of the Board at GS Consulting, a.s.

Very clear presentation with an optimal level of deep dive/details (neither too low level mathematical nor keeping at very high level). Really liked it. The presenter reflected a great understanding of this domain this way by explaining it in simple terms.

Packt Live seminar attendant

The training helped me achieve my goal of understanding machine learning. Much respect for Pablo for a great introduction!

Training attendant, Romania

Pablo is a great trainer! His teaching style is fun and easy to follow. He explained complex topics in an understandable way and took time to go through details and offer practical examples. He answered every question, even those outside the general scope of the course.

Training attendant, Romania

The trainer was really nice as a person and really good as a trainer, I enjoyed every single day of the course, and it inspired me to continue learning statistics further on.

Training attendant, European Parliament (Brussels)

Cooperation with Pablo was very inspiring and beneficial. His knowledge and experience helped our team to move forward in many projects. I appreciate his effective approach in problem solving and his help in skill development of me and my colleagues in Data Science.

Eliska Valterová, Data Visualization Expert

Python for non-programmers

Course length: 4 days (28 hours including breaks)

Description: Python is a popular open-source language used in a wide variety of domains — school instruction, academic research, numeric analysis, Web applications, and system administration. Because of its readability, Python is an excellent first language with which to learn programming. Indeed, many universities now use Python in their introductory courses.

This class introduces Python for people who have had little or no experience programming before. By the end of the course, participants will know how to write and execute simple Python programs, make use of complex data structures, functions, and classes. They will also understand many of the different types of data that come with Python, and will know which ones to use, and when.

Audience: People with little or no programming experience, who wish to learn Python and taken advantage of its power.

Course syllabus:

- Introduction to Python (and programming)
- Variables
- Blocks and indentation
- Conditionals
- Programs in files
- Basic data types
- Loops (for and while)
- Reading from and writing to files
- Creating complex data structures
- Writing and invoking functions
- Modules and packages

Python for Programmers

Course length: 2 days (14 hours including breaks)

Description: In this intensive course, we will cover the fundamentals of the Python programming language. This is addressed for programmers with previous experience.

Audience: Programmes with experience in Java, C/C++, PHP, or .NET.

Course syllabus:

- Python syntax.
- Data structures (lists, dictionaries)
- For loops and flow control in programs.
- Introduction to object-oriented programming.

Machine Learning with Python

Course length: 4 days (28 hours including breaks)

Description: In this intensive course, we will cover the fundamentals of the Python programming language. This is addressed for programmers with previous experience.

Audience: Programmes with experience in Java, C/C++, PHP, or .NET.

Course syllabus:

- Python syntax.
- Data structures (lists, dictionaries)
- For loops and flow control in programs.
- Introduction to object-oriented programming.

Neural networks and deep learning

Course length: 2 days (14 hours including breaks)

Description: In this course, we will dig into the most exciting technology around: deep learning. We will train neural networks in small data to teach you the basics to get you started developing your own applications.

Audience: Participants are expected to have some knowledge of Python and machine learning (supervised/unsupervised learning fundamentals).

Course Syllabus:

- Fundamentals of neural networks.
- Image classification.
- Transfer Learning. Fine-tuning of deep learning models.
- Debugging and deploying deep learning models.

Moving forward

Discovery Call

I need first to understand your needs. My aim is to help you decide the training option that would bring value as soon as possible.

Curriculum Design

After our initial call, I prepare a preliminary syllabus, according to your needs, budget, and other constraints.

Training Delivery

This can be ***online or at your company***. I will provide software prerequisites in advance to hit the ground running on the first training day.

For more information:

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