Python for quants. volume i

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Python for quants. volume i

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Course information: Take the course online: Python for Finance with Yves J. Hilpisch Python has established itself as a real contender in the Quant Finance world to implement efficient analysis workflows and performing applications. Although being a interpreted language, analysts and quantum developers can draw the powerful ecosystem (scientific) that grew around Python. This ecosystem includes libraries such as NumPy that allows the management and operations of arrays both highly vector and at the speed of the C code. Moreover, using the pandas library makes the management and analysis of the financial time series both convenient and efficient. In this context, data visualization is also easily achieved with Python. The workshop also illustrates how to implement hardware-bound input-output operations with Python/NumPy and libraries such as PyTables. In summary, in the background of financial examples and cases of use, the workshop "Python for Finance" introduces to the most important linguistic elements, tools and (performance) libraries that Python as a technology platform has to offer for Quant Finance. Results: It does not require any prior knowledge of Python, but knowledge of a similar programming language and standard financial models. You'll learn: * How to start using Python best, related tools and libraries for Quant Finance * How to model and store data efficiently with Python * How to implement compact and performing financial algorithms * How to view financial data with Python * How to manage and analyze data in the financial time series * How to implement performance I/O operations * How to increase financial code performance Python Lecture 1. Python and Tools (RUNNING TIME: 1 Hour 22 minutes) The first lesson shows how to efficiently configure a Python environment and development for Quant Finance. It also introduces in IPython, and in particular in the Notebook version that allows interactive and browser-based financial analysis with Python Lecture 2. Introductory financial use cases (RUNNING TIME: 1 hour 50 minutes) This lesson is immediately immersed in three cases of canonical use: calculating and tracking implied volatility, implementing simulations of Monte Carlo executor, confirming a trend-based trading strategy. These use cases illustrate the advantages of the main Python libraries (NumPy, pandas), which are explained in detail in the subsequent conferences. Conference 3. Data Types/Structure and Visualization (TIME DIRECT: 1 hour 16 minutes & 31 minutes) This lesson concerns modeling and storing data with Python and displaying data. Introduces data types and basic structures in Python, shows how to use NumPy array features and how to write vectorized numeric code with Python/NumPy. Conference 4.This lesson concerns the use of the pandas library for the management and analysis of the financial time series. Show Application Examples and advanced analysis and time series display. It also shows how to work with high-frequency data. Conference 5. Input-output operations (RUNNING TIME: 1 hour 20 minutes) Financial analysis and the development of financial applications is mainly based on efficient and performing management and data movement (large, large). This lesson illustrates how to ensure that reading and writing data (to HDD, SSD) takes place at the maximum speed that any given hardware component allows. Examples also illustrate how to use compression techniques in such a context. Conference 6. Performance libraries (DIRITTED TWO: 1 hour 30 minutes) The Python ecosystem must offer a series of powerful performance libraries. For example, the use of Numba Dynamic Compliance Library allows you to compile the Python byte code to call-time code to the machine code using the LLVM infrastructure. The resulting compiled functions are called directly by Python. Similarly, using the Python Multiprocessing module makes the parallelization of Python functions a simple and efficient task. About the Presenter: Dr. Yves J. Hilpisch is the founder and CEO of The Python Quants GmbH, Germany. The company provides financial analysis and derivatives software based on Python ( ) and advisory and training services related to Python and Finance. He is author of the books "Derivatives Analytics with Python" (see) and "Python for Finance - Analyze Big Financial Data" (see . Visit the Yves website at and follow it on Twitter at . Course requirements: Taking the course programming experience is provided in some languages; C, VB, Fortran, Matlab etc. The experience with C, C++ will also be useful for some topics. Object-oriented programming skills are not entirely necessary, but will also help. A knowledge of the calculation, statistics, signal processing and image, optimization will help all your learning but are not absolutely necessary. CPD Certification You will be able to receive 40 CPD points (10 hours of CPD structured and 30 hours of CPD self-directed) taking this course. The CPD Certification Service was established in 1996 as an independent CPD accreditation institution operating in all sectors of the industry to integrate CPD policies of professional and academic bodies. The CPD certification service provides recognized independent CPD accreditation compatible with global CPD principles. www.cpduk.co.uk Photos of Seven Shooter on Unsplash This list includes books that I found useful on my trip to quantitative finance. This list is not exhaustive, but I can guaranteethe usefulness of each of these books as I read them myself. 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