Python for Finance & Algorithmic Trading
SERVICES
for financial institutions globally

EVENTS
for Python quants & algorithmic traders

TRAINING
about Python for finance & algorithmic trading

CERTIFICATION
in cooperation with university

PLATFORM
for browser-based data analytics

BOOKS
about Python and finance

OPEN SOURCE
Python library for financial analytics

http://tpq.io
UNIVERSITY CERTIFICATE IN PYTHON FOR ALGORITHMIC TRADING

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Once logged in, you can then download the TWS application for your operating system. Starting the application then requires the previously chosen user name and password. TWS then might show up as in `Trader Workstation after login with trial credentials` on your desktop.

![TWS application](image)

Figure 58. `Trader Workstation after login with trial credentials`

The arrangement of the different panels of TWS might be changed or new windows might pop up depending on what you request from the application. `TWS break out window with option chain data` shows a break out window with option chain...
Today’s data-driven banking industry portrays a scenario where analytics is proving a productive path for banks by offering meaningful insights on their underlying data. Although basic reporting and descriptive analytics are prevalent in the banking sector, the need for advanced prescriptive and predictive analytics.

Sophisticated technologies—like the emerging cognitive analytics for instance—are enabling banks to make better decisions and achieve profitable growth quarter-on-quarter. At the same time, with enhanced visibility into intricate information, such as individual financial health and behavioral patterns, banks now have the upper hand in risk mitigation and fraud prevention that help them comply with mandatory regulations.

With the Blockchain gaining mainstream attention, digital currencies such as Bitcoin and Ethereum are doing their rounds among consumers for payments and other transactions. To that end, banks are leveraging analytics to prevent theft and fraudulent use of these digital currencies, by verifying and tracking the transactions with unprecedented levels of speed and transparency.

Identifying the numerous benefits of analytics, CIOs are on a constant quest to find solutions that deliver insightful information in a timely and accurate manner and also elevate productivity to a whole new level.

To help CIOs and CPOs find the right banking analytics solution provider, a distinguished panel comprising of CIOs, CFOs, VCs, analysts, and the Banking CIO Outlook editorial board has selected top players from the sector. The companies listed here demonstrate an ability to develop innovative technologies and methodologies along the banking value chain, while providing outstanding customer service.

We present to you Banking CIO Outlook’s Top 10 Banking Analytics Solution Providers 2017.

Company: The Python Quants Group

Description: Focused on Python and Open Source Technologies for Financial Data Science, Algorithmic Trading and Computational Finance

Key Person: Dr. Yves J. Hilpisch

Managing Partner

Website: tqp.io

Python and open source technologies are empowering organizations and individuals to do financial and data analytics in real-time and on a highly customized basis as well as to rapidly develop new financial applications and deploy them based on weekly or even daily cycles. “We support financial institutions in introducing, training and deploying Python and a major building block in this regard is our Quant Platform,” adds Hilpisch. “Our training offerings are based on more than 10 years of experience with Python for Finance and provide a hands-on learning experience, making heavy use, for instance, of our Quant Platform.”

The company’s Quant Platform makes on-call, standardized Python deployment an easy and efficient affair while mitigating risks and reducing maintenance costs considerably during deployment. Based on modern web technologies and deployment techniques like Docker containers, the Quant Platform provides a full-fledged suite of development tools via the web browser without the need to install any kind of open source software locally on desktop or notebook computers.

In an instance, Europe, one of the leading derivatives exchanges, wanted to support investors, traders, market makers and quants in the understanding and trading of their listed volatility and variance products. Europe decided to use Python for this project and The Python Quants were tasked to create the content and in particular the Python codes accompanying it. While the content itself became part of the Europe website, all Python codes were provided to Europe partners and other interested parties on a Europe-licensed version of the Quant Platform for easy code access and execution. “Deploying open source technologies, like Python, is often a radical and sometimes even a risky process, with our services and products we help our clients to make this process more efficient and mitigate risks,” adds Hilpisch.

Another product of The Python Quants Group assisting organizations to model, price and risk manage complex portfolios of (multi-risk) derivatives with potentially complex correlation structures is IX Analytics. Being an open source derivatives, portfolio and risk analytics library written exclusively in Python—it makes heavy use of the capabilities of Python and the capabilities of its numerical and data analytics libraries.

Our major focus has always been on the use of Python and open source technologies for financial data science, computational finance and algorithmic trading.

As the Python ecosystem sees tremendous momentum, The Python Quants Group’s near-term focus will be on machine and deep learning techniques, technologies emerging in algorithmic trading as well as on cryptocurrencies and blockchain. “We will improve our value proposition in particular for hedge funds and other buy side players for the days to come,” concludes Hilpisch.