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**Python for Data Professionals in Finance**

This comprehensive learning path is designed for data professionals in the finance industry who want to leverage the power of Python. Learn best practices for performing calculations; ingesting and preparing financial data; integrating Python with Excel for data manipulation, analysis, and reporting; creating dynamic financial models; and using advanced machine learning models to enhance your trading strategies.

* **Explore**, analyze, and visualize financial data with Python.
* **Unlock** the power of Python functionality within Excel.
* **Build** dynamic financial models for trading strategies.

Course 1 : **Getting Started with Python for Finance**

**What you should know**

* **Basic Python Knowledge**: You should have a basic understanding of Python, including concepts like variables, loops, and functions.
* **Experience with Jupyter Notebooks**: Familiarity with Jupyter Notebooks will be helpful as it allows you to create and share code, visualizations, and other content in a single document.
* **Excel Formulas**: Knowledge of basic Excel formulas (like sum, average, and if) will be beneficial, even though Excel is not directly used in this course.

**Loading data**

* **Importing Libraries**: The video demonstrates how to import essential libraries like matplotlib, NumPy, Pandas, and Y Finance, and the use of aliasing for convenience.
* **Loading Data**: The instructor shows how to use the Y Finance library to download historical data for the S&P 500 and Apple from 2010 to 2019, resulting in a Pandas DataFrame.
* **Inspecting Data**: The video covers inspecting the DataFrame, understanding its structure, and using the pipe method to chain operations for better readability and maintainability of the code.

These steps are crucial for preparing financial data for analysis using Python.

**raw.pipe? – pulls the documentation for pipe in Jupyter notebook. Whenever we put a ? after a method or function Jupyter will pull a documentation for it.**