

KaxaNuk

Sharing knowledge

Python Foundations

Workshop

Things You'll Learn



This workshop provides you with the **core Python skills needed to analyze and work with financial data**.

You'll learn fundamental programming concepts, data structures, and essential libraries for data manipulation and analysis, all within the context of real-world financial applications.

By the end of the workshop, **you'll be equipped to start building your own financial models and analyses using Python**.

Our Program

Python Foundations

Goal

The objective of this program is to **develop your coding skills in Python through financial examples** and the development of a project **“Meents'ul”** that seeks to apply the knowledge gain during the sessions.

Target Audience

- ➔ Hedge Funds & Asset Managers
- ➔ Institutional Investors (Pension Funds, Endowments, Sovereign Wealth Funds)
- ➔ Family Offices
- ➔ Proprietary Trading and Sell Side Firms
- ➔ Independent Financial Advisors (IFAs) & Wealth Managers
- ➔ Quantitative Analysts & Portfolio Managers (Individuals)
- ➔ Academic Institutions & Students (Finance/Quant Programs)
- ➔ Corporate Treasuries

Format



- ➔ We will have **24 sessions**. Each session will begin with a review of the slides, followed by hands-on coding examples that you will later be able to adapt to build your own repository.
- ➔ Every session includes a **practice assignment** designed to reinforce the concepts covered.
- ➔ To obtain the certification, **participants must complete a final project**, which may be done **individually or in teams of up to three members**.

Sessions

Workshop	Session	Modules
Python Foundations		**Basic Concepts**
	01	Python Ecosystem
	02	Data Structures
	03	Core Libraries
	04	Coding Structures
	05	Functions
	06	Classes
	07	Modules
		Python in Finance
	08	Data Management
	09	Data Cleaning
	10	Data Visualization
	11	PowerPoint + Python
	12	Excel + Python
	13	Web Scraping
	14	Google Trends
	15	Time Series
	16	Feature Engineering
	17	Data Curation
	18	Dashboard Sketches
	19	Streamlit
	20	Dash
		Software Engineering
	21	Design Document
	22	Software Architecture
	23	Quality Assurance
	24	Documentation

Meents'ul

The final project, **Meents’ul**, is designed to apply everything learned during the workshop. To earn the workshop certificate, participants must submit and present their project in a video of no more than 10 minutes.

In Mayan, Meents’ul means **“to search for fruits after the harvest”**, symbolizing the process of gathering the results of your learning journey.

Disclaimers

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