DATA SCIENCE & A.I. WITH PYTHON MODULE 1

PYTHON BASICS

This module gives you a good grasp of the fundamental concepts of **data science**, basic programming logic with Python and its syntax, and help you build up your own **financial analysis** with Google Colab.

Course Fee: HKD13,280 (HKD6,640 per module)

Duration: please refer to the latest schedule on the website of RTTP (Registered Public Courses)

Key Topic Highlights:

Python for Data Science

- Grasp **basic Python concepts** and logics for data filtering, etc. Code your **first stock alert programme** and learn simple logic behind it. You will also see how Python is applied in the real-world with **Machine Learning and Artificial Intelligence**.

Web Scrapping with APIs

- Learn to scrape **historical stock price data** or leverage on existing datasets to access useful information in the data structure.

Analyzing Data with Python

- Introduction to **popular libraries and Python package** like NumPy used by professionals to efficiently practice data science and manipulate data to your own ends.

Intro to Data Visualization

- **Build a basic data project** and learn how data scientists create meaningful and insightful plots with **data visualization** and evaluate **companies stock price charts**.

Who is it for? Absolute beginners in programming who are interested in knowing how to start their first data project with Python to research on .

66,000 NEW TECHNOLOGY AND DATA SCIENCE JOBS WILL BE CREATED BY 2030.

Source: Financial Times

Preface Coding   www.preface.ai/   +852 6634 0851   PREFACE CODING

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DATA SCIENCE & A.I. WITH PYTHON MODULE 2

ADVANCED DATA VISUALISATION AND DATA ENGINEERING

Harvest useful data from anywhere online and use **powerful libraries** from Python to streamline your own **research**. After this boot camp, you can easily and quickly understand how to apply different programming techniques to different industries**.**

Course Fee: HKD13,280 (HKD6,640 per module)

Duration: please refer to the latest schedule on the website of RTTP (Registered Public Courses)

PY   Key Topic Highlights:

Data Crawling and Data Mining

- Learn how to extract and save any data on any websites like Google and Yahoo, process the HTML codes, and build automated tools to crawl the web at scale. **From texts to images**, fetch and display desired information for your own use with libraries like BeautifulSoup.

Automation with Python

- Based on the programming basics learned, create Python programs that perform useful achievement of **automation** with libraries like Selenium. Things that might take us hours to do, now can be done by computer in minutes.

Advanced-Data Visualisation

- Bridge the gap between data and insights and create **informative and striking statistical graphics** with libraries like Seaborn and Plotly. Draw effective conclusions and analysis by visualizing the multidimensional relationships among the data samples.

Data Cleaning and Feature Engineering

- Understand the importance of data cleaning and feature engineering in a **machine learning project**. Learn how to explore, clean and model data for supervised machine learning using preprocessing techniques.

Who is it for? Data Science & A.I. with Python Module 1 graduates who are interested to leverage Python further to derive value from data to research on various projects.

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