



DATA-ANALYTICS

WINTER CAMP'24



1) Intro to python

INTRODUCTION

- Before you go around conquering the Financial Markets with your financial strategies, you must first understand the importance of Python and Data Analytics in formulating these strategies at this level. Its versatility, efficiency and extensive libraries tailored for data analysis and manipulation make Python a force to reckon in financial sector. In finance, the ability to draw meaningful insights from large volume of data is very crucial, and python's rich ecosystem of tools like pandas, numpy, scikit-learn among others makes this process seamless and efficient. When it comes to analyzing market trends, developing predictive models for risk management or optimizing investment portfolios; Python equips finance professionals with the right tools needed for effective data-driven strategies.

PYTHON RESOURCES

- **Here are some resources to introduce you to the Python's basic Syntax:**
- **Geeks for Geeks:** <https://www.geeksforgeeks.org/python-syntax/>
- **W3schools :** <https://www.w3schools.com/python/default.asp>
- **Video :** <https://m.youtube.com/watch?v=rfscVS0vtbw&pp=ygUJPUHI0aG9uIG9uZSBzaG90>
- These resources are pretty extensive and cover almost everything you need to get started with Python. It is unlikely that you will be able to remember the syntax in one go. Do not get too disappointed if you are not able to remember the syntax just yet, enough practice should do that for you .

GOOGLE COLAB

- For data analysis and scientific computing, platforms like Google Colab offer cloud-based and interactive environments with pre-installed libraries such as NumPy, pandas, and matplotlib. Google Colab allows for collaborative coding, access to GPU resources for accelerated computations, and integration with Google Drive for easy data storage and sharing.
- **Using Google Colab :** <https://www.geeksforgeeks.org/how-to-use-google-colab/>

EXERCISES

Here are a few Python Notebooks and exercises that we compiled for absolute beginners:

- **Link :** https://drive.google.com/drive/folders/1U-IFwY4uRr_uRp6j2_4Bg1CtpPTwK2q7?usp=sharing