

TAKEN FROM COURSERA PROJECT NETWORK BY RYAN AHMED

We will understand the fundamentals of data visualization with Python and leverage the power of two important python libraries known as Matplotlib and seaborn. We will learn how to generate line plots, scatterplots, histograms, distribution plots, 3D plots, pie charts, pair plots, countplots and many more!

OBJECTIVES:

- Plot histograms, countplots, scatterplots, and line plots
- Leverage the power of Matplotlib and Seaborn
- Understand python programming fundamentals for data visualization

GOAL:

- Understand the fundamentals of data visualization with Python and leverage the power of two key libraries known as Matplotlib and Seaborn.

TOOLS:

- VENV, Python, Matplotlib, Seaborn

DATA:

- Stock prices/returns, cryptocurrency prices/returns.

KEY LEARNING OUTCOMES:

1. Understand python programming fundamentals for data visualization
2. Plot histograms, countplots, scatterplots, and line plots
3. Plot multiple and subplots
4. Plot 3D plots and correlation heatmaps

To develop this assignment, please use:

1. Notebook: DataVisualizationWithPythonMatplotlibAndSeaborn.ipynb
2. Sources:
 - a. data\stock_data.csv
 - b. data\stocks_daily_returns.csv
 - c. data\crypto_daily_prices.csv
 - d. data\crypto_daily_return.csv