

Lesson 4: Matplotlib

Course Agenda

- Python Crash Course
- Data Analysis:
 - NumPy
 - Pandas
- Data Visualization:
 - **Matplotlib**
 - Seaborn
 - Pandas
 - Plottly and Cufflinks
 - Geographical Plotting
- Machine Learning
 - Linear Regression
 - Logistic Regression
 - K Nearest Neighbors
 - Decision Trees and Random Forests
 - Support Vector Machines
 - K Means Clustering
 - Recommender Systems

Matplotlib

- Matplotlib is the most popular plotting library for Python
- It gives you control over every aspect of a figure
- It was designed to have a similar feel to MatLab's graphical plotting

Here you can find a Matplotlib documentation:

- <https://matplotlib.org/stable/gallery/index.html>

Matplotlib Installation

If you use Anaconda distribution, most likely you have Matplotlib installed.

Otherwise, you'll need to install matplotlib by going to your command line or terminal and using either:

conda install matplotlib

pip install matplotlib

Matplotlib Agenda

- Basic Plots
- Creating Multiplots on Same Canvas
- Introduction to the Object-Oriented Method
- Figure Size, Aspect Ratio and DPI
- Saving Figures
- Legends, Labels, and Titles
- Setting colors, Linewidths and Linetypes
- Line and Marker Styles
- Control Over Axis Appearance

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