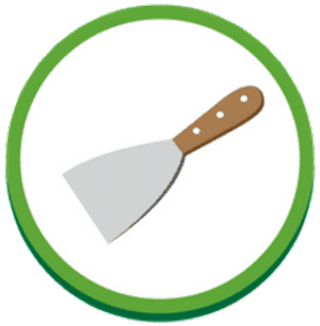
Python Libraries for Data Science

Data Mining Libraries



Scrapy

Scrapy helps to build scrapping programs that can retrieve structured data from the web for example contact info. Developers use it for gathering data from APIs.

BeautifulSoup

It is used for web scraping purposes to pull the data out of HTML and XML files. It helps you gather data that’s available on some website but not via CSV/API. It helps you extract and arrange it into the format you need.

Data Processing and Modelling

It is used for large, multi-dimensional arrays and matrices, along with a large collection of high-level mathematical functions to operate on these arrays.

It allows various data manipulation operations such as merging, reshaping, selecting, as well as data cleaning, and data wrangling features for data analysis.

Data Processing and Modelling

It's the used for tasks like object identification, speech recognition and many others functions. It helps in working with artificial neural networks that need to handle multiple data sets.

It is used for linear algebra, integration, optimization, and statistics. Its main function was built upon NumPy, so its arrays make use of this library in python.

Data Processing and Modelling

It allows performing tensor computations with GPU acceleration. It is also used in creating dynamic computational graphs and calculating gradients automatically.

It is used for developing and evaluating deep learning models and neural networks. It wraps TensorFlow and Theano and used for defining and training neural networks.

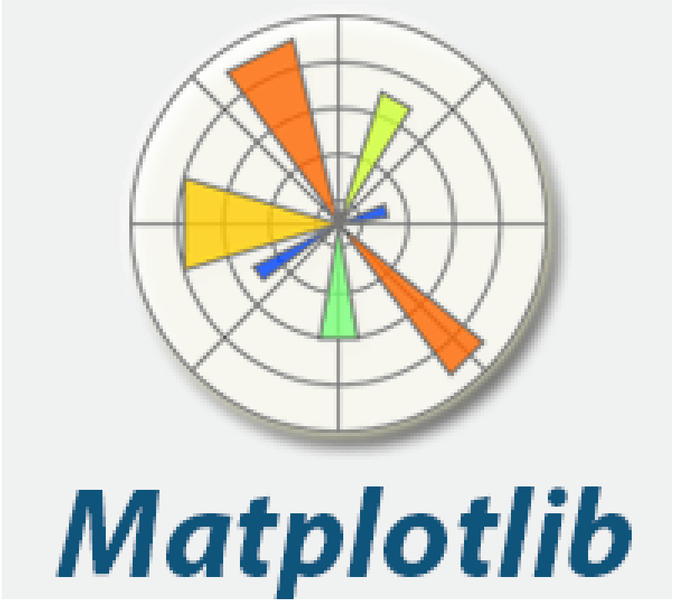
Data Visualization

It is a library used for creating interactive visualizations for modern web browsers. It helps you build beautiful graphics, ranging from simple plots to complex dashboards with streaming datasets.

It is based on Mathplotlib and serves as a useful Python machine learning tool for visualizing statistical models. It helps in visualizations that summarize data and depict the overall distributions.

Data Visualization

It offers many useful out-of-box graphics. It is used in interactive web applications and supports multiple views and animation.



This is a standard data science library that helps to generate data visualizations such as two-dimensional diagrams, histograms, scatterplots, non-Cartesian coordinates graphs.

Thank you for reading :)