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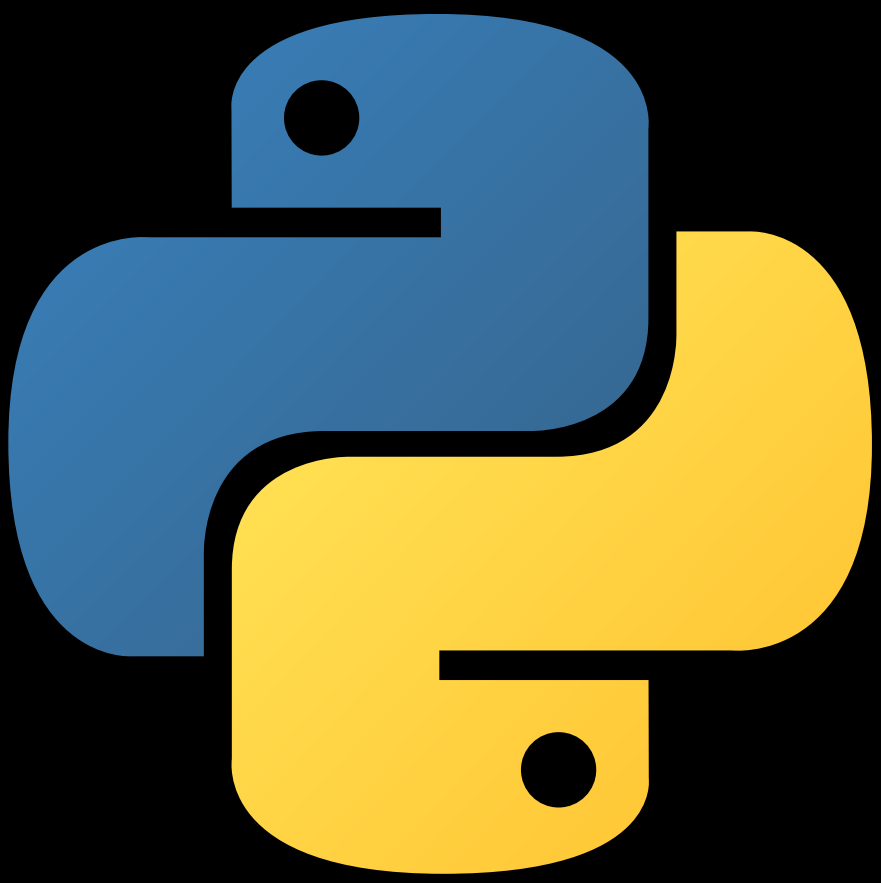
10 PYTHON LIBRARIES FOR DATA ANALYSTS



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1. PANDAS

A library for data manipulation and analysis, including tools for reading and writing data, cleaning and transforming data, and performing statistical analysis.

Example: Using Pandas to read in and clean a CSV file of customer data, then calculating summary statistics such as mean, median, and mode for key metrics.

pandas

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2.NumPy

A library for numerical computing that provides fast and efficient operations for working with arrays and matrices.

Example: Using NumPy to perform linear algebra operations on a matrix of customer purchase data to calculate customer lifetime value.

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3. MATPLOTLIB

A library for creating visualizations such as line charts, scatter plots, and bar charts.

Example: Using Matplotlib to create a histogram of customer purchase frequency to identify the most common purchase amounts.

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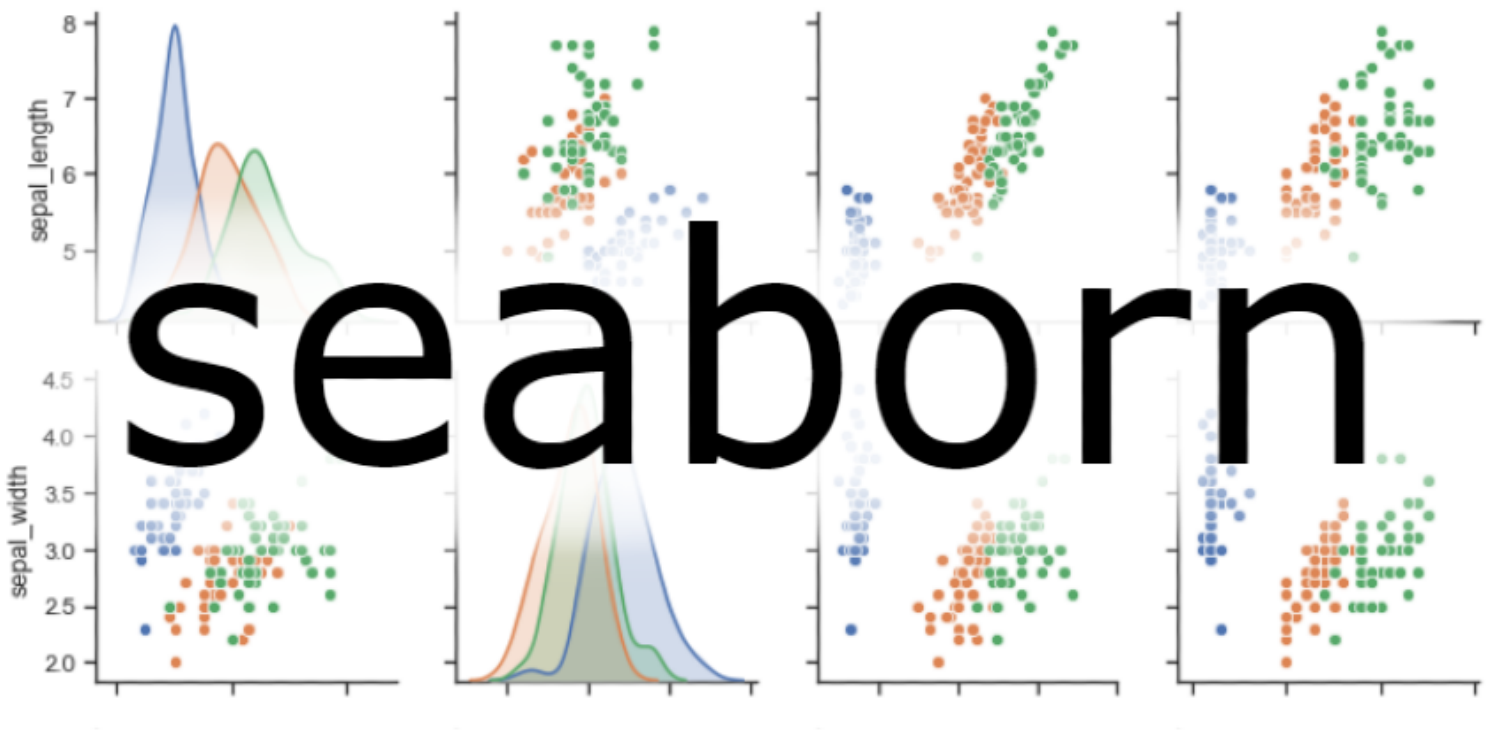
4. SEABORN

A library for creating statistical visualizations such as heatmaps, box plots, and violin plots.

Example: Using Seaborn to create a scatter plot of customer purchase frequency versus purchase amount to identify patterns in customer behavior.



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5. SCIKIT-LEARN

A library for machine learning that provides tools for classification, regression, clustering, and more.

Example: Using Scikit-learn to build a predictive model that identifies which customers are most likely to churn.

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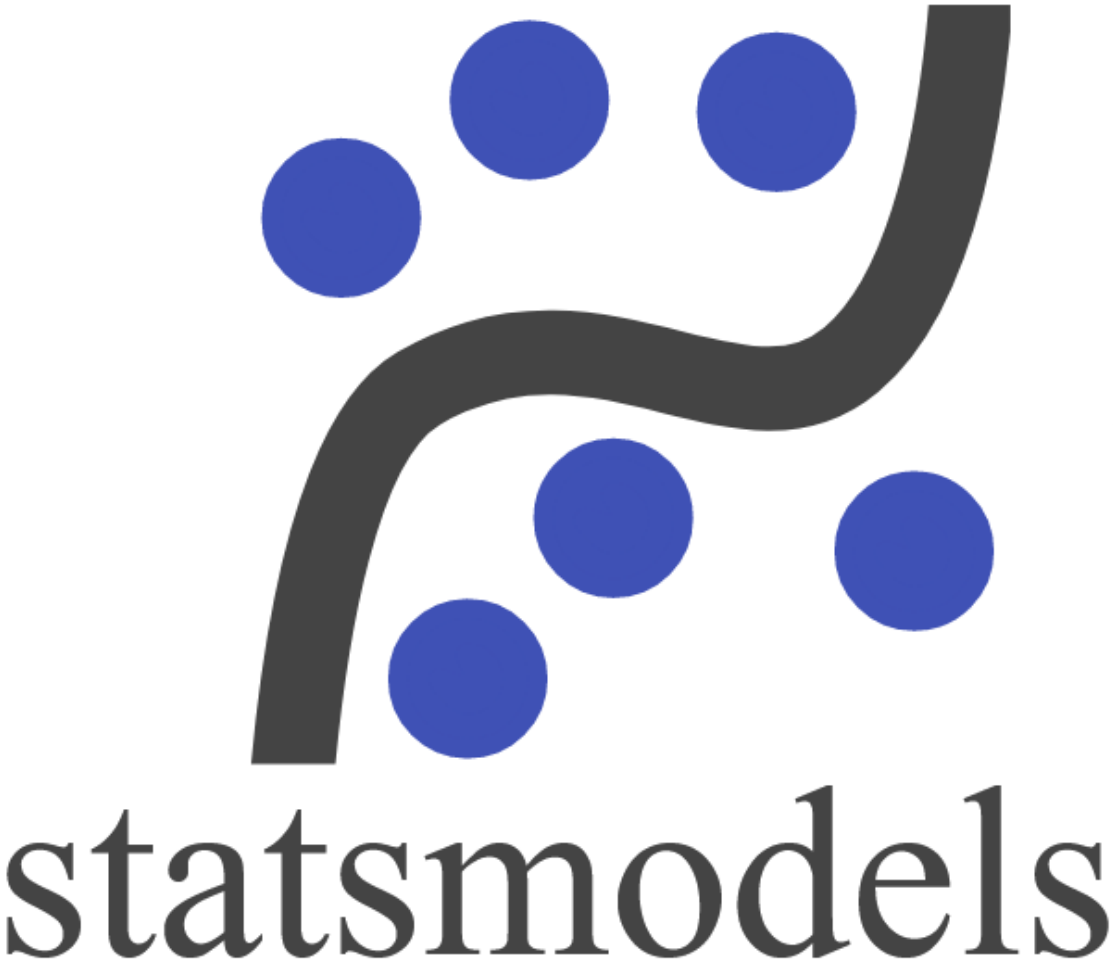
6. STATSMODELS



A library for statistical analysis that provides tools for hypothesis testing, regression analysis, and time series analysis.

Example: Using Statsmodels to perform a regression analysis of customer purchase behavior to identify the most important factors that influence purchase frequency.

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7.BeautifulSoup

A library for web scraping that provides tools for parsing HTML and XML documents.

Example: Using BeautifulSoup to scrape data from a website and extract key metrics such as pageviews and bounce rate.

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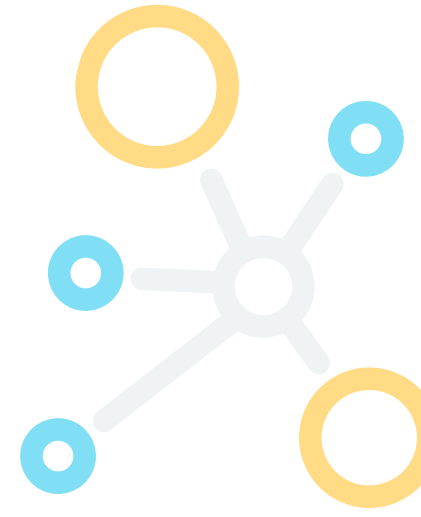
8.NetworkX



A library for analyzing and visualizing networks, such as social networks or transportation networks.

Example: Using NetworkX to analyze the connections between customers and identify the most influential customers in a social network.

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9.PySpark

A library for working with big data using the Apache Spark framework.

Example: Using PySpark to perform distributed computing on a large dataset of customer transactions to calculate summary statistics.

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10.Requests

A library for making HTTP requests to web servers.

Example: Using Requests to retrieve data from an API and integrate it with internal customer data for analysis.

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