

Data Visualization

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Data Visualization is the graphic representation of data. It converts a huge dataset into small graphs, thus aiding in data analysis and predictions. It is an indispensable element of data science that makes complex data more understandable and accessible. Matplotlib and Seaborn act as the backbone of data visualization through Python. Matplotlib: It is a Python library used for plotting graphs with the help of other libraries like Numpy and Pandas. It is a powerful tool for visualizing data in Python. It is used for creating statical inferences and plotting 2D graphs of arrays. It was first introduced by John D. Hunter in 2002. It uses Pyplot for providing MATLAB like interface free and open-source. It is capable of dealing with various operating systems and their graphical backends. Seaborn: It is also a Python library used for plotting graphs with the help of Matplotlib, Pandas, and Numpy. It is built on the roof of Matplotlib and is considered as a superset of the Matplotlib library. It helps in visualizing univariate and bivariate data. It uses beautiful themes for decorating Matplotlib graphics. It acts as an important tool in picturing Linear Regression Models. It serves in making graphs of statical Time-Series data. It eliminates the overlapping of graphs and also aids in their beautification.