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Python - Data visualization using Bokeh

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Bokeh is a data visualization library in Python that provides high-performance interactive charts and plots. Bokeh output can be obtained in various mediums like notebook, html and server. It is possible to embed bokeh plots in Django and flask apps.

Bokeh provides two visualization interfaces to users:

bokeh.models: A low level interface that provides high flexibility to application developers.

bokeh.plotting: A high level interface for creating visual glyphs.

To install bokeh package, run the following command in the terminal:

pip install bokeh

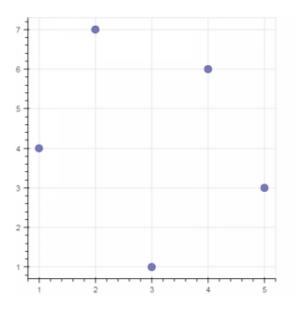
The dataset used for generating bokeh graphs is collected from Kaggle.

Code #1: Scatter Markers

To create scatter circle markers, circle() method is used.

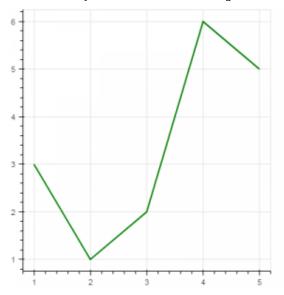
show the results
show(p)

Output:



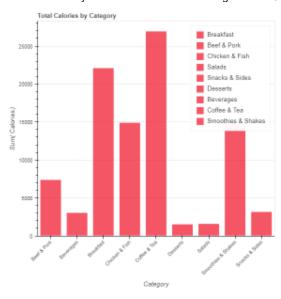
Code #2: Single line

To create a single line, line() method is used.



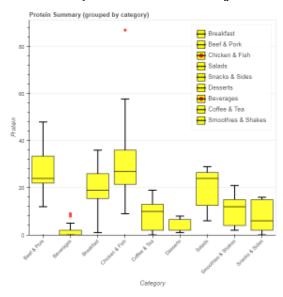
Code #3: Bar Chart

Bar chart presents categorical data with rectangular bars. The length of the bar is proportional to the values that are represented.



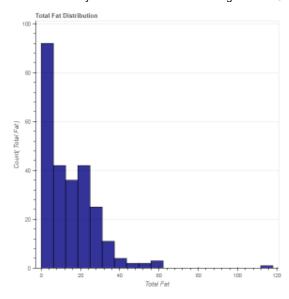
Code #4: Box Plot

Box plot is used to represent statistical data on a plot. It helps to summarize statistical properties of various data groups present in the data.



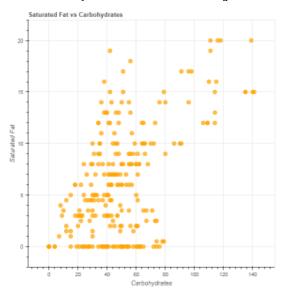
Code #5: Histogram

Histogram is used to represent distribution of numerical data. The height of a rectangle in a histogram is proportional to the frequency of values in a class interval.



Code #6: Scatter plot

Scatter plot is used to plot values of two variables in a dataset. It helps to find correlation among the two variables that are selected.



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