6-11-2024

Training Day – 35

Topic:* Styling Matplotlib Visualizations

- Experimented with styles like seaborn-dark and ggplot.
- Example: Customized a bar chart with labels, gridlines, and colors.

visualization easier and identifying outliers easily.

Matplotlib comes with a variety of built-in styles that can be applied to your plots with a single line of code. These styles can dramatically change the look and feel of your plots, making them more suitable for different purposes like presentations, reports, or technical papers

```
from matplotlib import style
```

1.IQR: It stand for "inter quartile range", which define as the difference of "third quartile(q3) and first quartile (q0)".

2. Outliers are those value which comes after the last quartile to affect our mean, as well as below the first quartile.

3. Our whole data is divided in four part i.e. 25%, 50%, 75%, 100%, and these percentile values refers to our quartile(q1,q2,q3,q4).

```
from matplotlib import style
print(plt.style.available)
```

Output:

```
['Solarize_Light2', '_classic_test_patch', 'bmh', 'classic', 'dark_background', 'fast', 'fivethirtyeight',
'ggplot','grayscale','seaborn','seaborn-bright','seaborn-colorblind', 'seaborn-dark', 'seaborn-dark-
palette', 'seaborn-darkgrid', 'seaborn-deep', 'seaborn-muted', 'seaborn-notebook', 'seaborn-paper',
'seaborn-pastel', 'seaborn-poster','seaborn-talk','seaborn-ticks','seaborn-white','seaborn-
whitegrid','tableau-colorblind10']
```