Data Visualization

1 Trends

A trend is defined as a pattern of change.

sns.lineplot: Line charts are best to show trends over a period of time, and multiple lines can be used to show trends in more than one group.

2 Relationship:

There are many different chart types that you can use to understand relationships between variables in your data.

sns.barplot: Useful for comparing quantities corresponding to different groups.

sns.heatmap: Find color-coded patterns in tables of numbers.

sns.scatterplot: Show the relationship between continuous variables.

sns.regplot: Including a regression line in the scatter plot makes it easier to see any linear relationship between two variables.

sns.lmplot: For drawing multiple regression lines, if the scatter plot contains multiple, color-coded groups.

sns.swarmplot: Categorical scatter plots show the relationship between a continuous variable and a categorical variable.

3 Distribution

We visualize distributions to show the possible values that we can expect to see in a variable, along with how likely they are.

sns.distplot: Histograms show the distribution of a single numerical variable.

sns.kdeplot: KDE plots show an estimated, smooth distribution of a single numerical variable.

sns.jointplot: This command is useful for simultaneously displaying a 2D KDE plot with the corresponding KDE plots for each individual variable.