# Jupyter Notebook Functions Explanation

## Functions and Their Explanations

### barplot

Description: Creates a bar plot to show the distribution of categorical data.

### boxplot

Description: Displays the distribution of data and potential outliers using a box-and-whisker plot.

### copy

Description: Creates a copy of a DataFrame or array to avoid modifying the original data.

### corr

Description: Computes the correlation matrix of numerical features.

### drop

Description: Removes specified rows or columns from a DataFrame.

### dropna

Description: Removes missing values from a dataset.

### duplicated

Description: Identifies duplicate rows in a DataFrame.

### enumerate

Description: Adds an index counter to an iterable (like a list or tuple).

### figure

Description: Creates a new figure for plotting in Matplotlib.

### fillna

Description: Fills missing values with a specified value or method.

### get\_dataset\_names

Description: Retrieves available datasets from the Seaborn library.

### head

Description: Displays the first few rows of a dataset.

### heatmap

Description: Displays a correlation heatmap for numerical features.

### histplot

Description: Generates a histogram to visualize the distribution of numerical data.

### info

Description: Displays information about the dataset, including column types and missing values.

### isnull

Description: Checks for missing values in the dataset.

### load\_dataset

Description: Loads a dataset from the Seaborn library.

### lower

Description: Converts a string to lowercase.

### mean

Description: Calculates the average of numerical values in a dataset.

### median

Description: Finds the median (middle) value in a dataset.

### mode

Description: Determines the most frequently occurring value(s) in a dataset.

### pairplot

Description: Creates pairwise scatter plots to analyze relationships between variables.

### plot\_categorical\_numerical

Description: User-defined function in the notebook.

### print

Description: Outputs text or variables to the console.

### quantile

Description: Finds the specified quantile value in a dataset.

### remove\_outliers

Description: User-defined function in the notebook.

### rename

Description: Renames columns or index labels in a DataFrame.

### scatterplot

Description: Creates a scatter plot to show relationships between two numerical variables.

### select\_dtypes

Description: Filters DataFrame columns based on data type.

### show

Description: Displays a plot in Matplotlib.

### skew

Description: Measures the asymmetry of the distribution of numerical data.

### sum

Description: Returns the sum of elements in a dataset or array.

### tail

Description: Displays the last few rows of a dataset.

### title

Description: Adds a title to a Matplotlib plot.

### value\_counts

Description: Counts the occurrences of unique values in a categorical column.

### var

Description: Computes the variance of numerical data.

### violinplot

Description: Creates a violin plot to show the distribution and density of data.

### xlabel

Description: Labels the x-axis in a Matplotlib plot.

### ylabel

Description: Labels the y-axis in a Matplotlib plot.