**DS ASSIGNMENT-5**

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**SUBMITTED TO:**

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**CLASS: T.Y COMP**

**BATCH: COMP-C2**

**Assignment-5**

**Description:** Visualize the data and its outcome from Covid19 dataset in Python by Plotting the various graphs. Use Scatter Plot, Bar plot, Box Plot and Histogram for the given dataset and its prediction.

**Models Plotted:**

1. Scatter Plot
2. Bar Plot
3. Box Plot
4. Histogram

**1. Scatter Plot:** scatter plot is a diagram where each value in the data set is represented by a dot. The Matplotlib module has a method for drawing scatter plots, it needs two arrays of the same length, one for the values of the x-axis, and one for the values of the y-axis

**2. Bar Plot:** A bar chart or bar graph is a chart or graph that presents categorical data with rectangular bars with heights or lengths proportional to the values that they represent. The bars can be plotted vertically or horizontally. A bar graph shows comparisons among discrete categories.

**3. Box Plot:** A box plot is a method for graphically depicting groups of numerical data through their quartiles. The box extends from the Q1 to Q3 quartile values of the data, with a line at the median (Q2). The whiskers extend from the edges of box to show the range of the data.

**4. Histogram Plot:** a histogram is representation of the distribution of numerical data, where the data are binned and the count for each bin is represented. More generally, in plotly a histogram is an aggregated bar chart, with several possible aggregation functions (e.g. sum, average, count...).

**Interpretation:** Covid 19 Dataset: It tells the no. cases in the specific country , recovered cases, deaths, new cases, new deaths .

**Outcomes:** Made 4 graphs and i came on conclusion that Covid cases are increasing linearly but death rate is low the death ratio can be 10:1. That mean 10 covid cases out of that 1 death.