Assignment No-8

+ Aim :- pata visualization I:

- i) Use the inbuilt dataset ititanic': The dataset contains informate about the passengers who boarded the unfortunate titanic ship.
 - any patterns in the data.
- ii) write a code to check how the price of ticket by each passenger is distributed by plotting a histogram.

Introduction:

In this article we will look at seaborn which is another extremly useful library for data visualizath in python. The seaborn library is built on top of matpolib & offers many advanced data visualizath capabilities.

Though, the seaborn library can be used to draw a variety of charts such as matrix plots, grid plots regression plots, etc. in this article we will see how the seaborn library can be used to draw distributional & categorial plots.

= pistributional plots:-

plots that show the statistical distributh of data

pist plot !-

aram)

shows histogram distribution of data for single

FOR EDUCATIONAL USE

- The joint plot :-

Used to display mutual distribute of each column.

= The Rug plot :-

used to draw small bars along re-axis for each point in dataset.

= categorial plots:

categorial plots as the name suggest are normally used to plot categorial data.

= The bar plot !-

in categorial column.

= The count plot :-

similar to bar plot, it displays count of categories in a specific column.

= The box plot:-

used to display distribution of the categorial data in the form of quartiles.

= The strip plot:-

used to plot violin plot.

= The swarm plot !-

combination of strip & violin plots.

= combining swarm & violin plots!
swarm plots are not recommended if you have
a huge dataset since they do not scale well
because they have to plot each data point.

= conclusion:-

seaborn is an advanced data visualization
library built on top of matplotlib library.
In this article we looked at how we can
draw distributional & categorial plots using
seaborn library.