

DSBDAL Assignment -9 Title: Data Visualization I Use the inbuilt dataset 'titanic' as used in above problem. Plot a box plot for distribution of information about whether they survived or not.

Write Observation on the inference from the above r tabistics. Learning Objectives.

To be able to import an inbuilt dataset. To be able to use the seaborn library to plot Learning Outcomes: student will be able to import the seaborn Student will be able to understand the use various graphs & plot them. Hardware & software requirements: Jupy ter Note book Python 3.8 Manual Manual



threony! bata Visualization is the graphical representation of information of data by using visual elements like charts, graphy of maps. Data Visualization took provide an accessible way to see I understand trends, outliers & patterns in data. Data visualization is one of the steps of the data science process, which states that after data has been collected, processed I modeled. It must be visualized that conclusion to be Data set used: Titanic dataset The dataset contains 891 rows of contains information about the passengers who boarded the ship. The dataset is available within the in built dataset of scaborn library. The dataset of scaborn library. The dataset contains features such as age, glader, class, alive, whether they survived on not. Scaborn library: Seaborn is an amazing visualization library
for satisfied graphics plotting in python. It
provideds beautiful default styles of colour
pallete to make satisfied graphs more attractive.



Types of graphs used: Bor plot A bor plot shows categorical data rectangular bors with the height of bors proportional to the value they represent. is often used to compare between values different categories in the data. Box plot: A box plot is created to display the Summary of the set of data values having properties like minimum, first quartile, medien, third quartile & maximum. · strip plot To is basically a scatter plot where the x-axis represents a categorical variable. Swarm plot: A swarm plot is a type of scatter plot that is used for representing categorical values. It is similar to be strip plot, but it avoids the overlapping of points. Violin plot A viloin plot is a hybrid of a box plot of a kernel density plot, which shows peaks in data. It is used to visualize the distribution of



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	numeric data. Unlike a boxplot that can only
	show summary statics, violin plots depict
	summary statics & density of each variable.
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•	Analysis:
	From the graph, we can conclude that in made,
1	the age of people who survived is around 20.
	The median age of make & female who survived is around 27.
	The median age of people who didn't the survive
•	Conclusion:
	we were able to understand the use of
	graphs such as violin plot, morn plot, box
	plot, strip plot, & We were also successfully
	able to plot this graphs for titaric dataset
	using realorn library.
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