

DSBDAL

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Assignment 10 Roll no. 31126

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	Title: Data visualization III
	Problem Statement:
	Download the iris flower dataset or any other dataset into a dataframe scan datase
	and give inference as:
	D List down features and their types
	available in the dataset
	2) create a histogram for each feature in
	the dataset to illustrate the feature distribu
	ions.
	3) create a boxplot for each feature in dataset.
	4) compare distributions and indentify outliers
	Objectives
	- To understand various visualization technique
	using seaborn python library.
emonal Company	- to apply appropriate plotting techniques to
	visualize all the features.
	. Describe the observations made by
	using each plot graph.
	learning outcomes:
	students will be able to -
	- perform basic data visualizations using
	appropriate graphs.
	- Infer from the graphs about differ
	ent features.



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	Software and Hardware Requirements:  Linux OS (ubuntu). Intel core is 8th gen,  (8 GB RAM) python 3.8, jupyter Notebook.
	Theory:  Data visualization  It is the representation of data through  use of common graphics, such as charts  plots, info graphics and even animations.
	These visual displays of information communicate complex in a way that is easy way to understand.
	Seaborn library.  It is data visualization library built on top of matplotlib and closely integrated with pandas data structure. Visualization is central part of seaborn library which helps in exploration and understanding of the data.
	Numeric data type:  It refers to a data type that can be stored and identified based on form of numbers and not any descriptive form.
	Nominal data type  It is type of data that is used to  label variables without providing any quantitative  value.



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	Observations:
	- The nominal data types are - species,
	numeric data types are sepal len, sepal
	width, petal len petal width.
	- There are no null values in datasel-
	-The attributes of Iris versicolor and Iris-
	virginica are almost similar. They are,
,	however different in terms of sepal length
	and sepal width.
	· Iris · setosa has a very small petal length
	and width as compared to the other two
	- The histogram depicts the variation of
	each feature with species.
	- The box plot depicts distribution of
	each feather wit species
	- The box plot can also be used to find
	outliers
	Conclusion
	Thus we have successfully applied various
	visualisation techniques and inferred the
	variations of all the fearthers with species
	in Tris dataset.