



PRIYADARSHINI COLLEGE OF ENGINEERING

(Recognised by A.I.C.T.E., New Delhi & Govt. of Maharashtra,
Affiliated to R.T.M.Nagpur University)
Near CRPF Campus, Hingna Road, Nagpur-440 019,
Maharashtra (India)



ACADEMIC SESSION: 2023 – 2024 (ODD SEMESTER)

Assignment – 2

Subject : **Elective IV : Data Visualization** Semester : **VII A**
Subject Teachers : **Mr. Jogi John** Assignment No : **2**
Unit : **III,IV,V** Date of Submission

CO3 To learn usage of Watson studio.

CO4 To learn about packages Numpy, pandas and matplotlib.

CO5 To learn functionalities and usages of Seaborn.

	Questions	Mapping with COs	BT Level
1.	a) Explain how Watson Studio will provide the environment to solve business problems	CO3	2
	b) What is data type? List out the types of data types with example.	CO3	2
2.	a) What is dictionary? Explain the methods available in dictionary.	CO3	2
	b) Differentiate between numpy arrays and lists.	CO3	2
3.	a) Explain the following term i) Raw Code ii) Waffle Chart	CO4	2
	b) How will you create the normalized weight	CO4	2
4.	a) Explain pie chart Specialized Visualization Tools using Matplotlib.	CO4	2
	b) Explain Bubble plots Specialized Visualization Tools using Matplotlib.	CO4	2
5.	a) An e-commerce company 'wants to get into logistics "Deliver4U" . It wants to know the pattern for maximum pickup calls from different areas of the city throughout the day. This will result in: i) Build optimum number of stations where its pickup delivery personnel will be located. ii) Ensure pickup personnel reaches the pickup location at the earliest possible time. find the highest density of probable pickup locations in the future.	CO5	3
	b) Explain Spatial Visualizations and Analysis in Python with Folium	CO5	2
6.	a) Explain the following terms i) regression plots ii) matrix plots	CO5	2
	b) Explain the following terms i) Distribution plots ii) Categorical plots	CO5	2

Mr. Jogi John / Dr.N.A.Ghodichor
(Subject Teachers)

Dr. (Mrs.) N. M. Thakare
(HOD, CT)