

**PRIYADARSHINI COLLEGE OF  
ENGINEERING, NAGPUR DEPARTMENT OF  
INFORMATION TECHNOLOGY**

**Session 2022-23 (EVEN SEM)**

**Assignment 2**

**Topic: Python for data handling, data visualization and Advance data  
Analysis**

**Subject: -Data Science**

**SEM: -VI SEM(open elective)**

**Date of Display: 4 / 4 / 2023**

**Date of Submission: 8 / 4/2023**

<b>CO3</b>	Apply ethical practices in everyday business activities and make well reasoned ethical business and data management decisions
<b>CO4</b>	Demonstrate knowledge of statistical data analysis techniques utilized in business decision making
<b>CO5</b>	Apply algorithm to build machine intelligence

<b>Q.NO</b>	<b>Questions</b>	<b>Mappi ng with CO</b>	<b>BT</b>
1	Explain data manipulation with Pandas and Write a program of pandas with the help of pandas series and Dataframe.	CO3	2
2	Explain visualization with matplotlib and seaborn write a example of matplotlib and seaborn.	CO4	3
3	Write a program to plot histogram using matplotlib.	CO4	3
4	Explain feedforward neural network in detail with example	CO5	2
5	Explain the neural networks in detail also write the pros and cons for the same	CO5	2

**Prof. Pallavi Hiwarkar**  
**(Subject teacher)**

**Dr. P.M. Chaudhari**  
**(H.O.D. IT)**