PYTHON

Part A

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| 1. Interpret on any four Methods for indexing in Data Frame |
| 1. What are the ways to aggregate data in Python? |
| 1. Compare the Python Matplotlib vs MATLAB. |
| 1. How to create multiple subplots using plt.subplots. |
| 1. Explain the contour plots in python. |
| 1. How data visualization can be done using matplotlib? |
| 1. How to explicit the format operator available in files. |
| 1. How to pandas handle missing data in python? |
| 1. How to identify the issue at handling in data preprocessing? |
| 1. Write a program to find the one’s complement of binary number using file. |
| 1. How Do I Read A CSV File As A Text File? |
| 1. How to preprocess the data in python mention it step-by-step? |
| 1. How are scatter plots and histograms different from line graphs? |
| 1. What are 3 popular applications that have been created using Python? |

Part B

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| 1. Explain in detail about Pandas data structures and write suitable example. |
| 1. Creating a sample dataset of marks of various subjects using Aggregating data in Pandas.6 2. b) Write a code for Selecting a single columns and multiple columns using indexing operator**.7** |
| 1. Write a Python program which takes a list and returns a list with the elements shifted left by one position" so [1, 2, 3] yields [2, 3, 1].6 2. (ii) Write a Python program to remove the first occurrence of a specified element from an aray.7 |
| 1. Write a program to draw a horizontal bar chart with Matplotlib. |
| 1. Describe Reading data from CSV and TXT Files in detail with suitable code |
| 1. Summarize Working with Missing Data in Pandas concepts in detail |
| 1. What is Data Visualization? & discuss in detail about the Different types of Matplotlib Plots with suitable program. |
| 1. Write a code for Insertion Sort Visualization using Matplotlib in Python and list out the approaches. |
| 1. Write a program to draw a horizontal bar chart with Matplotlib. |
| 1. Explain in detail about data preprocessing,analysis &visualization in python. |
| 1. Write a short notes on 2. Applications of python in Data science 3. b)Density and Contour Plots |
| 1. Give the detail explanation of data Visualization with Matplot lib and write suitable code. |
| Explain the syntax of the following statements   1. i) for loop ii) while loop. |
| 1. How to make a Histogram plot in pandas?   Give a syntax for scatter() method in Matplot lib.  Why do data scientists use Python? |
| 1. Write a program to find the one’s complement of binary number using file.   How to identify the issue at handling in data preprocessing?  How to pandas handle missing data in python? |