

Assignment-2_DADV

Q.1 Discuss why Python is a preferred language for data analysis and statistical computing. Include at least three key features of Python that make it suitable for these purposes.

Q.2 Write a Python script to load a dataset from a CSV file, and display the first five rows of the dataset. (Assume the dataset file is named `data.csv`).

Q.3 Define and explain the importance of the measures of central tendency (mean, median, mode) and measures of dispersion (range, variance, standard deviation).

Q.4 Calculate the mean, median, mode, variance, and standard deviation for the following dataset:

4,8,6,5,3,8,9,10,6,74, 8, 6, 5, 3, 8, 9, 10, 6, 74,8,6,5,3,8,9,10,6,7

Q.5 Differentiate between population variance and sample variance. Why is it important to distinguish between the two?

Dr. Vinod Patidar
Asso. Prof. (CSE Dept)
PIT, Vadodara