Statistics Basic-1

Assignment Questions

Q1. What is Statistics?

Q2. Define the different types of statistics and give an example of when each type might be used.

Q3. What are the different types of data and how do they differ from each other? Provide an example of each type of data.

Q4. Categorise the following datasets with respect to quantitative and qualitative data types:
(i) Grading in exam: A+, A, B+, B, C+, C, D, E
(ii) Colour of mangoes: yellow, green, orange, red
(iii) Height data of a class: [178.9, 179, 179.5, 176, 177.2, 178.3, 175.8,...]
(iv) Number of mangoes exported by a farm: [500, 600, 478, 672, ...]

Q5. Explain the concept of levels of measurement and give an example of a variable for each level.

Q6. Why is it important to understand the level of measurement when analyzing data? Provide an example to illustrate your answer.

Q7. How nominal data type is different from ordinal data type.

Q8. Which type of plot can be used to display data in terms of range?

Q9. Describe the difference between descriptive and inferential statistics. Give an example of each type of statistics and explain how they are used.

Q10. What are some common measures of central tendency and variability used in statistics? Explain how each measure can be used to describe a dataset.

Note: *Create your assignment in Jupyter notebook and upload it in GitHub & share that github repository link through your dashboard. Make sure the repository is public.*