

Lab-9 Outlier Detection

Lab-1: Detecting Outliers Using the IQR Method

Question:

The ages of participants in a workshop are recorded as:

[22, 25, 28, 30, 35, 36, 40, 42, 45, 47, 50, 52, 55, 100].

1. Identify if there are any outliers using the **Interquartile Range (IQR) method**.
2. Explain how the outliers affect the overall analysis of the data.

Lab-2: Visualizing Outliers with a Boxplot

Question:

A company tracks the monthly sales (in \$) of its 12 branches:

[12000, 13500, 15000, 16000, 17500, 18000, 19000, 20000, 21000, 22000, 25000, 50000].

1. Create a **boxplot** of the data to visually identify outliers.
2. Explain how the boxplot helps in understanding the presence and impact of outliers.