VIRTUAL REALITY SYSTEMS

OUTLIER DETECTION

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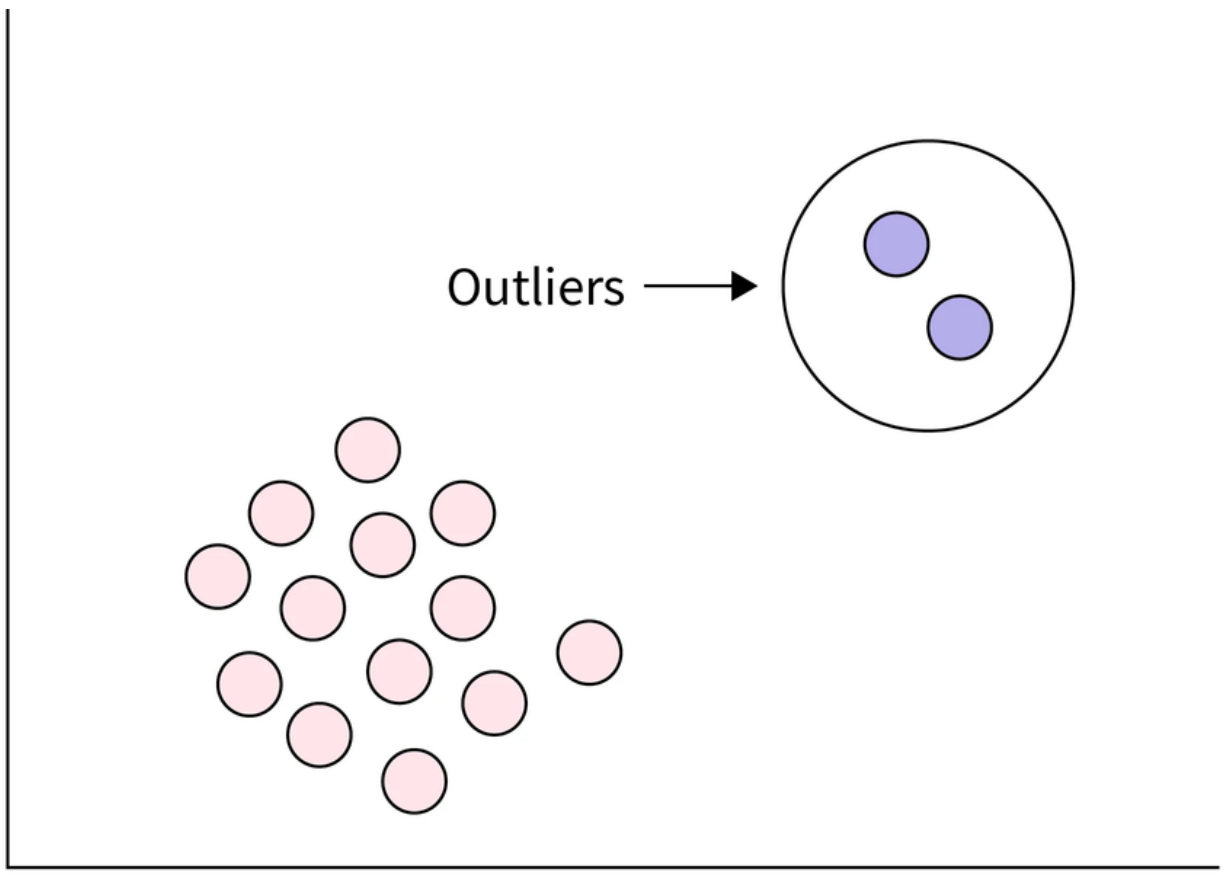
WHAT ARE OUTLIERS?

Outliers are the observations in a dataset that deviate significantly from the rest of the data.



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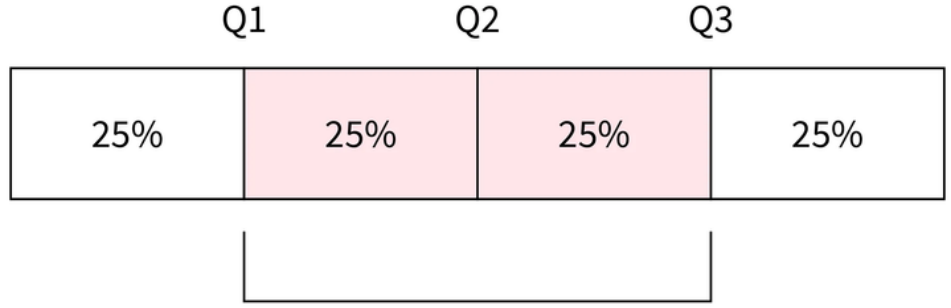
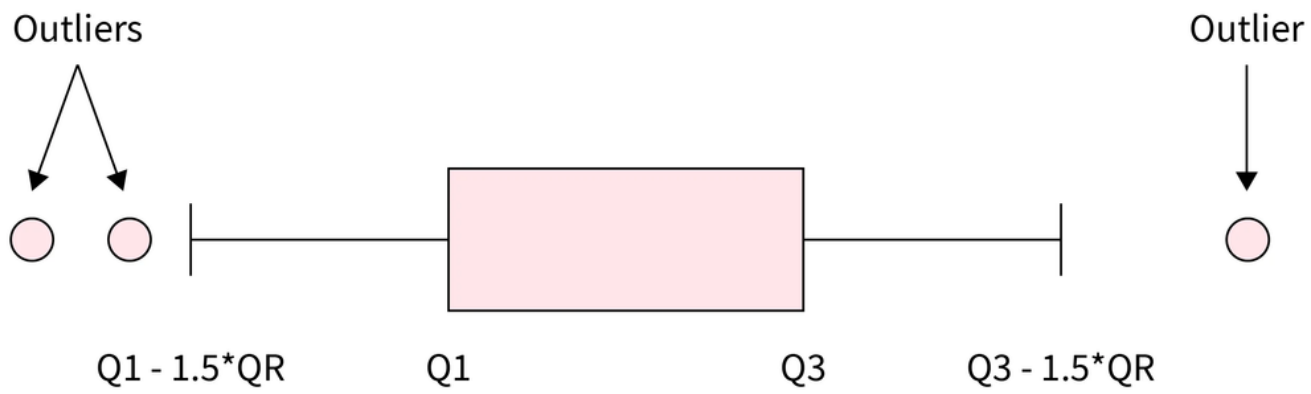
BOX PLOT METHOD

A box plot visually represents the distribution of the data, including the median, quartiles, and potential outliers.



Observations falling outside the whiskers (typically defined as 1.5 times the interquartile range) are considered outliers.



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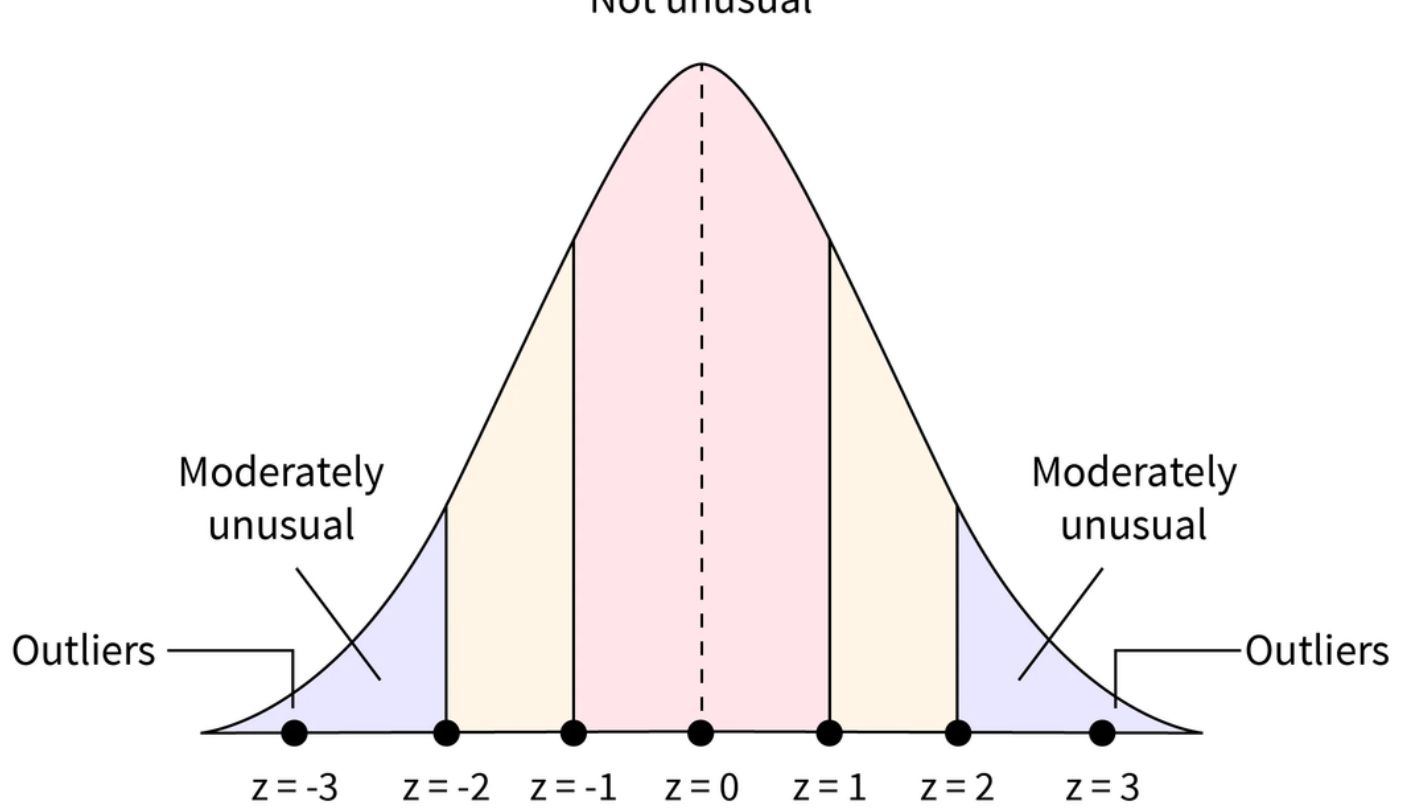
Z-SCORE METHOD

This method identifies outliers based on the number of standard deviations a data point deviates from the mean. Observations beyond a certain threshold (often set at 2 or 3 standard deviations) are considered outliers.



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PERCENTILE METHOD

The percentile method identifies outliers in a dataset by comparing each observation to the rest of the data using percentiles.

In this method, We first define the upper and lower bounds of a dataset using the desired percentiles.

For example, we may use the 5th and 95th percentile for a dataset's lower and upper bounds, respectively. Any observations or data points that reside beyond and outside of these bounds can be considered outliers

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THANK YOU

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