

Data Analytics Project

14. Outliers and Anomalies in Data Analytics



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1

Introduction to Outliers & Anomalies

1. Outliers and Anomalies are **critical concepts** in data analytics.
2. It represents **data points** that deviate **significantly** from the expected pattern.
3. Identifying and addressing outliers is essential for accurate analysis and valid results.



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2

WHAT are Outliers?

Definition:

Outliers are data points that deviate far from the expected values.

Effect:

It can distort analysis if not properly addressed.

Example:

A **temperature sensor malfunction** caused a sudden spike in recorded temperatures.



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3

WHAT are Anomalies?

Definition:

Anomalies are values that deviate very little from the mean.

Effect:

It can **distort analysis** if not properly addressed.

Example:

A sudden **surge** in website traffic due to a **viral social media post**.



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4

Tools for Detection

Various tools, such as scatter plots and box plots, are used to detect outliers.

These tools are especially useful for analyzing large datasets and big data.

Detecting outliers early in the data analysis process helps maintain data integrity.



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5

The Conclusion

1. **Outliers and anomalies** play a significant role in data analytics.
2. **Understanding and addressing** them are essential for accurate analysis and valid results.
3. We can **effectively manage outliers and anomalies** in the datasets by utilising appropriate tools and techniques.



THANK YOU!!! FOR YOUR SUPPORT! For Now...

Keep Learning, Keep Sharing & Keep Following
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