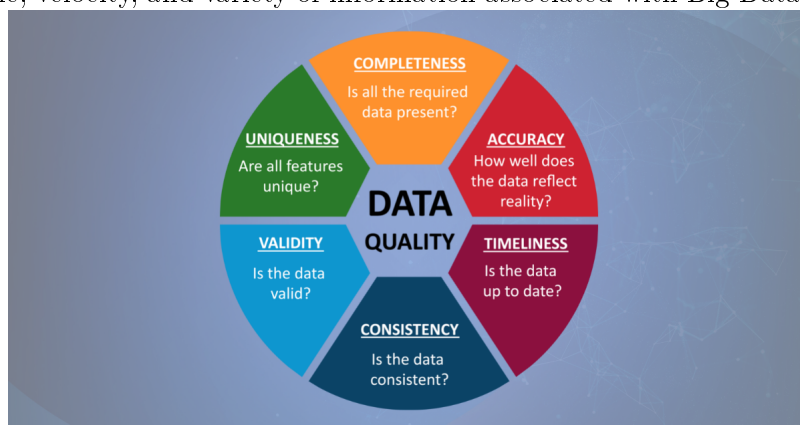# Ensuring Data Integrity and Reliability in Big Data: A Comprehensive Study on Data Quality Management Strategies*

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Abstract

We live in the era of Big Data. By looking at the statistics of globally generated data annually, we can see the increasing trend. If we compare the year 2010 and 2022 it shows us a difference of 95 zettabytes generated in a single year. However, the upward trajectory poses challenges in data quality. Consequently, the demand for realistic data sets, accurate and consistent information, and overall data quality has become a pressing concern. The paper aims to investigate the challenges related to testing in the context of Big Data adoption. It seeks to outline a testing strategy that can effectively validate the high volume, velocity, and variety of information associated with Big Data.

[1] [2]

References

[1] V. N. Gudivada, R. Baeza-Yates, and V. V. Raghavan. Big data: Promises and problems. *Computer*, 48(03):20–23, 2015.

[2] A. Mittal. Trustworthiness of big data. *International Journal of Computer Applications*, 80(9), 2013.