

# Literature Review

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This literature review explores how to effectively collect data with digital tools based on an academic article by Buchanan and Scofield (2018). The article focuses on how researchers can identify and deal with poor-quality data in research.

The authors emphasize the importance of ensuring that the data collected in a research is of proper quality to maintain the accuracy and reliability of the findings. They also highlight the problems that can arise if low-quality data is included in the analysis.

Therefore, the authors explore statistical techniques and approaches that researchers utilize to find and deal with low-quality data, such as cleaning data by detecting and removing outliers. Furthermore, the authors discuss the advantages and limitations of these methods and offer suggestions to researchers on selecting appropriate techniques based on their specific research context.

In conclusion, Buchanan and Scofield (2018) underline the importance of detecting and managing low-quality data in a research. The review provides valuable insights into the signs of low-quality data and the statistical methods available for identifying and addressing such data. By addressing this issue, researchers can improve the accuracy and reliability of their findings, eventually advancing the understanding of the research.

## **Correlation to Project:**

This literature review is useful for our project as it provides the significant steps for data collection or references that ensure the reliability and accuracy of our project data, sound detection.

## **References:**

- Buchanan, E. M., & Scofield, J. E. (2018). Methods to detect low quality data and its implication for psychological research. *Behavior research methods*, 50, 2586-2596.  
<https://link.springer.com/article/10.3758/s13428-018-1035-6>