

e-Portfolio Activity: Research Proposal Review (183 words)

- Which of the methods described in this week's reading would you think would suit your purpose?

My research would suit a quantitative research methodology, particularly descriptive research. I would develop an algorithm or approach to better manage data.

- Which data collection methods would you consider using?

For my data collection, I would implement data mining. Data mining is “the process of searching and analysing a large batch of raw data in order to identify patterns and extract useful information” (Twin, 2024). It would involve a structured approach to pre-process the raw data to ensure appropriate shape of data for further analyses.

- Which required skills will you need to have or develop for the chosen project?

I will require skills in:

1. Data collection and data management, to ensure data integrity
2. Data analysis skills, including statistical analysis, to ensure implementation of hypothesis testing and drawing of appropriate conclusions
3. Programming skills, particularly Python and SQL programming languages, to facilitate analysis and reproducibility
4. Code management skills, particularly version control, to ensure code integrity
5. Data visualisation, for communicating the results

References:

Twin, A. (2024) What Is Data Mining? How It Works, Benefits, Techniques, and Examples. Investopedia. Available from:
<https://www.investopedia.com/terms/d/datamining.asp> [Accessed 16 February]