Case Study Report

Design and Creative Technologies

Torrens University, Australia

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Title of Assessment: Case Study Report

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Application of Intelligent System in Natural Language Processing (NLP)

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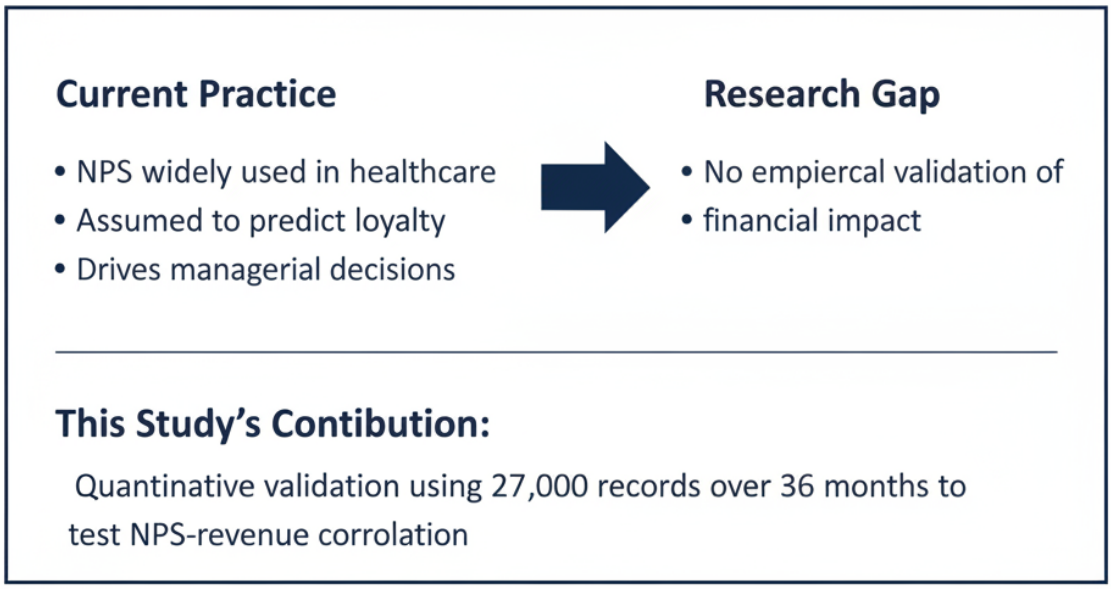

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End of Appendix Section

Statement of Acknowledgment

I acknowledge that I have used the following AI tool(s) in the creation of this report:

- OpenAI ChatGPT (GPT-5)
- Anthropic Claude Sonnet 4.6

Both have been used to assist with outlining, refining structure, improving clarity of academic language, and supporting APA 7th referencing conventions.

Prompt examples:

1.

2.

3.

I confirm that the use of the AI tool has been in accordance with the Torrens University Australia Academic Integrity Policy and TUA, Think and MDS's Position Paper on the Use of AI. I confirm that the final output is authored by me and represents my own critical thinking, analysis, and synthesis of sources. I take full responsibility for the final content of this report.

9. References

Alkhnbashi, O. S., Mohammad, R., & Hammoudeh, M. (2024). *Aspect-based sentiment analysis of patient feedback using large language models.* Big Data and Cognitive Computing, 8(12). https://doi.org/10.3390/bdcc8120167

Angelis, J. N., Murthy, R. S., Beaulieu, T., & Miller, J. C. (2024). *Better angry than afraid: the case of post data breach emotions on customer engagement.* IEEE Transactions on Engineering Management, 71, 2593–2605. https://doi.org/10.1109/TEM.2022.3189599

Bryman, A. (2016). *Social research methods* (5th ed.). Oxford University Press.

Cahya, V. N. C., Setyanto, R., & Paradise, P. (2025). *Analysis of the effectiveness of loyalty membership programs in increasing customer retention using net promoter score (NPS) with information system support*. Eduvest-Journal of Universal Studies, 5(9), 10974-10983.

Chen, E. (2023). *Growth product manager's handbook.* O'Reilly Media.

Cohen, J. (1988). *Statistical power analysis for the behavioral sciences* (2nd ed.). Routledge.

Creswell, J. W., & Plano Clark, V. L. (2023). *Designing and conducting mixed methods research* (4th ed.). SAGE Publications.

Dawes, J. G. (2024). *The net promoter score: What should managers know? International Journal of Market Research*, 66(2–3), 182–198. https://doi.org/10.1177/14707853231195003

Dawes, J. G. (2024). N*et promoter and revenue growth: An examination across three industries.* Australasian Marketing Journal, 32(1), 4-18.

Field, A. (2018). *Discovering statistics using IBM SPSS Statistics* (5th ed.). SAGE Publications.

Godovykh, M., & Pizam, A. (2023). *Measuring patient experience in healthcare.* International Journal of Hospitality Management, 112, 103405. https://doi.org/10.1016/j.ijhm.2022.103405

Mar, J., & Armaly, P. (2023). *Mastering customer success.* O'Reilly Media.

Morgan, D. L. (2014). *Pragmatism as a paradigm for social research*. Qualitative Inquiry, 20(8), 1045–1053. https://doi.org/10.1177/1077800413513733

Pallant, J. (2020). *SPSS survival manual* (7th ed.). Routledge.

Polonsky, M. J., & Waller, D. S. (2019). Quantitative data analysis. *In Designing and managing a research project* (4th ed., pp. 222-254). SAGE Publications. https://doi.org/10.4135/9781544316499

Shankar, R., & Yip, A. (2024). *Transforming patient feedback into actionable insights through natural language processing: A knowledge discovery and action research study.* JMIR Formative Research. https://doi.org/10.2196/69699

Wohlin, C., Runeson, P., Höst, M., Ohlsson, M. C., Regnell, B., & Wesslén, A. (2012). *Experimentation in software engineering*. Springer.

Wohlin, C., & Runeson, P. (2021). Guiding the selection of research methodology in industry–academia collaboration in software engineering. *Information and Software Technology*, 140, 106678. https://doi.org/10.1016/j.infsof.2021.106678

Xiao, Y., Li, C., Thürer, M., Liu, Y., & Qu, T. (2022). *Towards lean automation: Fine-grained sentiment analysis for customer value identification.* Computers and Industrial Engineering, 169. https://doi.org/10.1016/j.cie.2022.108186