

Github E-Portfolio URL: <https://qasimmu3.github.io/E-Portfolio/>

Github Repository: https://github.com/qasimmu3/E-Portfolio/tree/Module10_RMPP

Reflection

Statistical Analysis Skills

Through the module, I have gained and effectively adopted my statistical analysis prowess, researching various statistical approaches and their practical applications, enabled by immersive case studies and real-world examples. I have mastered the art of data collection, curation, and analysis using cutting-edge statistical software and tools. As a result, I can now scrutinize facts, unearth relevant insights, and make sound judgments. Moreover, I have become more discerning regarding data honesty, integrity, and ethical considerations in statistical analysis (Rashid et al., 2019 pg.50). Armed with this knowledge, I approach data analysis with a healthy dose of skepticism, mindful of various statistical methodologies' limitations and underlying assumptions. My ability to articulate complex statistical concepts to technical and non-technical audiences has improved markedly. Before going through the units and the materials provided, I needed help, especially in comprehending ideas and effectively structuring them as part of the research processes. Additionally, there are also minor and major mistakes that I occasionally create that would be rendered my hard-worked papers unreliable and invalid.

Therefore, the module has elevated my understanding of statistical analysis, giving me a solid foundation to apply statistical methods in diverse professional settings. I am adequately knowledgeable about handling various statistical approaches and developing solutions to the most common challenges within statistics and the associated analysis.

Research Methods Process

The module has equipped me with a comprehensive understanding of the research methods process, from formulating research questions to executing research projects and collecting data. I have gained expertise in various research procedures, including experimental, observational, and survey designs, and their suitability for specific research objectives. I have also imbibed the importance of research ethics and best practices. My need for integrity and transparency in research processes has deepened, thanks to a nuanced comprehension of the ethical considerations in data collection, processing, and analysis (Brayshaw et al., 2020 pg. 165). The significance of obtaining informed consent, preserving privacy, and safeguarding data confidentiality has been emphasized throughout the program.

Additionally, the module has underscored the indispensability of data visualization and reporting in research. I now possess the ability to relay research findings cogently using graphical representations and statistical summaries. It has enhanced my ability to communicate engaging and fascinating research insights and ideas.

Impact on Personal/Professional Experience

The professional skills matrix, SWOT analysis, and action plan I completed as part of the module have profoundly impacted my personal and professional growth. Self-reflection and assessment have given me a profound understanding of my strengths, limitations, opportunities, and threats in statistical analysis and research methodologies (Brayshaw et al., 2020 pg. 168) The

newfound self-knowledge has bolstered my confidence in using statistical methods and conducting research. By identifying areas that require improvement, I have been spurred to seek further training and practice to enhance my skills. Moreover, I have explored ways to leverage my research and statistical analysis knowledge by identifying potential avenues.

The action plan derived from the SWOT analysis has provided a roadmap for my personal and professional development, delineating specific objectives and actions to improve my statistical analysis abilities, deepen my understanding of research methodologies, and stay abreast of industry trends (Rashid et al., 2019 pg. 37). It has galvanized me to pursue continuous learning and improvement while providing a means to monitor my progress.

Project Outcomes and Critical Incident

The module's project outputs entailed exploring case studies and examples that delved into professional conduct, moral standards, and the authenticity of information within the computer industry. The case studies presented computing experts with moral quandaries and real-life scenarios that forced them to make decisions with far-reaching ramifications for the law, society, and their careers (Caligiuri et al., 2020 pg. 700). By scrutinizing and appraising the data extracted from these case studies, we gained a more profound knowledge of the ethical dilemmas and responsibilities of a career in computer science. The significance of upholding professional integrity in decision-making, adhering to codes of ethics, and prioritizing human safety and well-being has been underscored.

Now What

The newfound information I gleaned from the module will be my compass for future decisions and activities. I will leverage my improved statistical analysis prowess in various professional settings to ensure data integrity, accuracy, and ethicality. My top priority will be the welfare of those whom computer-generated decisions impact. I promise to make informed and wise judgments. In addition, I will keep abreast of the latest developments in the field and continue to engage in research. By incorporating ethical considerations into my research methodology, I aim to advance knowledge while upholding the most rigorous standards of professionalism and honesty.

Therefore, the module has been pivotal in refining my statistical analysis abilities, broadening my understanding of research methodologies, and shaping my personal and professional experiences. The study's findings and the critical incidents examined have yielded valuable insights into the moral and professional aspects of the computer industry (Brayshaw et al., 202 pg. 170). Armed with the information, I can now approach statistical analysis and research with a heightened sense of responsibility and ethical awareness.

Reference List

Rashid, Y., Rashid, A., Warraich, M. A., Sabir, S. S., and Waseem, A. (2019). Case study method: A step-by-step guide for business researchers. *International journal of qualitative methods*, 18, 1609406919862424.

Brayshaw, M., Gordon, N. and Karatazgianni, A., 2020. Identifying Gaps in Cybersecurity Teaching and Learning. *INSPIRE XXV*, p.165.

Caligiuri, P., De Cieri, H., Minbaeva, D., Verbeke, A., and Zimmermann, A. 2020. International HRM insights for navigating the COVID-19 pandemic: Implications for future research and practice. *Journal of international business studies*, 51, 697-713.