
Individual Reflection

This module is designed to give us a practical basis in research methods so that we may conduct research in an actual scenario. It covers a wide range of tools and procedures that a researcher could require for proposed project. In addition, the module covers the legal, social, ethical, and professional challenges that arise in computer projects, as well as the associated codes of practice and practices. The module included two major assignments to help us gain the aforementioned skills: a literature review and a research proposal presentation.

Eventually, for my literature review, the topic of AI-based assistive technology for physically disabled people was chosen. Since researchers are still analyzing and making recommendations, I chose to contribute to the research by writing a literature review on the subject. After deciding on the topic, a background analysis of the field was conducted in order to better comprehend the topic and critically evaluate how AI-based assistive technology will alleviate or aggravate the everyday routine of physically impaired persons. The literature review was conducted using a document-based methodology. That implies, since reading current literature reviews was the first stage in my study, the majority of the data for my literature review came from already published papers. After completing the literature review assignment, I concluded that producing a well-structured review would be a simple work for me, and that it would be incredibly valuable in my professional life, given my job entails analyzing client concerns when utilizing banking platforms. However, based on the criticism for the literature review, I still need to emphasize critical analysis and the structure of a literature review, as the literature review was described as a report. As a result, I created a Professional Skills Matrix and an action plan that I targeted to improve by the end of the module.

Consequently, following feedback on the literature review, I opted to concentrate more on my shortcomings because I believed these are the most important abilities for completing the research proposal presentation. Therefore, rather than relying just on existing articles for data gathering for the research proposal, I decided to conduct focus interviews on for the chosen topic in order to have a better understanding of the real impact of AI on assistive technology for

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special needs students. As it is said, we must be present in the environment in order to better comprehend their way of life and the challenges they confront in society. As a result, I contacted the manager of the *Laventure Technical School for Disabled*, and we met to discuss the goal of the focus interview with both educators and special needs students.

Accordingly, a group of eight students with disabilities and four educators were the focus interview participants, as mentioned in the research proposal presentation. They were asked questions that were pertinent to the research proposal's topic in order to gain a better understanding of how the institution assists students with disabilities in their learning and what resources are available to educators to teach special needs students. Since the focus interview involved fragile students with special needs, their responses were kept anonymous during the research proposal presentation. Thus, I considered the following ethical concerns: voluntary participation, informed permission, and confidentiality, as well as risk assessments such as social, health, and safety issues.

Furthermore, after gathering information from the interviews, I conducted a study on pedagogy to determine whether the Mauritian education system is appropriate for these special needs students. As a result, I focused more on past pedagogies and how incorporating AI into education will aid both educators and special needs students in the teaching and learning process. The research proposal included a pedagogical solution by considering four scenarios based on two main factors namely, the inclusive teaching style and inclusive pedagogy, which was constructed based on the responses from educators and students with disabilities in the focus interviews. Considerably, the positive feedbacks I received for my research proposal proved that I had overcome my earlier constraint. This focus was on the format of the presentation, and I obtained an outstanding result for the PowerPoint structure as well as a favorable mention for the knowledge displayed with developing critically.

As a result, the research proposal assignment taught me how to conduct in-depth research and analyze the information acquired. In my professional industry, I have used the similar method. Notably, I was recently asked to create a report for one of our clients on a vital topic. Following a thorough investigation, I created a precise and exhaustive report using my newly gained skills. My supervisor and the client congratulated me for providing a well-structured and well-analyzed report. In the same way, in addition to the two major summative tasks, I took part in a formative

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activity called collaborative discussion 1, which assisted me in doing critical analysis on a certain topic. The research effort was accurate to the issue, as evidenced by reviews and comments from my peers, and this allowed me to improve my critical analytical skills. However, being an active listener and having emotional intelligence abilities are two areas in which I struggle. As a result, I created a Professional Skills Matrix and an action plan that I hope to improve by the conclusion of the module and course.

In summary, this module has assisted me in fully comprehending the essential ideas of Research Methods, which comprise a variety of tools and approaches that a researcher may require. I am confident in my abilities to employ critical insight into legal, social, ethical, and professional challenges at work after completing this program. By using the skills learned in this module, I am able to create and critically assess a research proposal for the provided topic, which I will eventually share with my coworkers.