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CSIT998: Project Practice by  
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**1 Code of Professional Conduct**

**Project Background:** The ageing problem has been a contentious topic in Australia for many years. A report from the Australian Institute of Health and Welfare in 2022 reveals that 65% of individuals aged 65 and older are living with disabilities. Furthermore, the percentage of disabled individuals, particularly among those aged 80 and above, continues to increase annually. Meanwhile, over 50% of them are in depression, which causes another mental issue. This trend of the above situation highlights a growing need for formal and technical support facilities for elderly individuals with disabilities.

This project is about developing an AI-based innovative data visualization tool to monitor and present health trends for senior citizens in aged care facilities. Using Azure AI services, the tool will analyze the population-level data looking for trends related to symptoms caused by dementia, as agitation or depression, and those supported by nursing interventions. It will allow for personalized health monitoring and visual data tracking to adjust the services based on the requirements of this group. The project aims to facilitate decision-making within aged care through AI-based findings and figure out a clear visual representation to improve the quality of life for the elderly.

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