

Module Name: Project

Module Code: CHC6096

Assessment Title: Undergraduate Project Progress Report

Student Number: 202118020329

Word Count: 7081

**AI Declaration:**

*I have not utilised the use of AI tool(s) in this assessment.*

*I have used the following AI tool(s): please provide the name of the AI tool(s) you have used and provide the exact prompt(s) you provided in*

**Large Language Model:**

- *I have used ChatGPT 4o and Claude sonnet 3.5 to assist me in modeling binary classification models.*
- *I have used ChatGPT 4o, Cursor and Claude sonnet 3.5 to debug and troubleshoot errors in my Python code.*
- *I have used ChatGPT 4o and Claude sonnet 3.5 to assist in writing functions to automate repetitive data processing tasks.*
- *I have used ChatGPT 4o and Claude sonnet 3.5 to help calculate evaluation metrics in the most of functions.*
- *I have used ChatGPT 4o and Claude sonnet 3.5 to assist with writing code for optimized feature dimension reduction algorithms.*
- *I have used ChatGPT 4o and Claude sonnet 3.5 to explain and analyze Latex equations for the report.*
- *I have used ChatGPT 4o and Claude sonnet 3.5 to review my code structure and suggest best practices for improved readability and efficiency.*
- *I have used ChatGPT 4o and Claude sonnet 3.5 to explain and implement optimization techniques for hyperparameter tuning.*
- *I have used ChatGPT 4o and Claude sonnet 3.5 to organize and analyze paragraphs and data tables in the report.*

- *I have used ChatGPT 4o and Claude sonnet 3.5 to refine and enhance the language used in report sections.*

**Grammarly:**

- *I have used Grammarly to check and correct grammar issues in the report.*

**DeepL Translator:**

- *I have used DeepL to translate certain texts and paragraphs for clarity in the report.*

***The box below:***

If the declaration has not been made, and your tutors suspect use of AI, you will be called into do an oral presentation and it will be considered academic misconduct if you fail the oral presentation. You must also declare the use of translation software.

Full disclosure will not result in an academic penalty or a lower score, so please be honest and fill in the declaration when submitting your assignment(s).