UNIVERSITY OF MALAYA

EXAMINATION FOR THE DEGREE OF MASTER OF DATA SCIENCE

ACADEMIC SESSION 2022/2023 : SEMESTER II

WQD7006 : Machine Learning for Data Science

June 2023   Time: 12 Hours

INSTRUCTIONS TO CANDIDATES :

Answer **ALL** questions (20 marks).

(This question paper consists of 2 questions on 2 printed pages)

Alternative Assessment Two :

Case Study - 20% for your final marks   **Duration - 12 Hours**

This is a group task (to remain with the same group in class). You are required to produce a **FIVE-page report** (Without any references), typed using single-space (Times New Roman, Font size = 12). Submission via Spectrum.

Tasks:

1. Search and pick two JOURNAL articles that have used machine learning models to solve a particular problem, e.g., detecting cancer, student drop-out prediction etc. Both the journals MUST BE related to the same domain (i.e., if you select breast cancer detection, then both articles should be related to this topic).
2. Read the articles.
3. You are required to provide a comparative analysis between the studies. Your report should cover the followings:

   a) Briefly describe the studies.
   b) State the research gap for the studies.
   c) Explain the methodology and results of the study. You can use tables and figures (your own).
   d) In your opinion, what are the strength(s) and weakness(es) of the study.
   e) What will you do differently in order to improve the results? Why?
   f) Reflection – what is your general opinion of the study conducted? Pay attention to the topic investigated, methodology and results.

Note:

1. Please DO NOT use ChatGPT or any other chatbots to complete your assignment. If caught, a zero will be given.
2. Please adhere to the instructions given
3. Team member names must be listed as footnote on Page 1 of the report
4. Submit the report through Spectrum (one report per group). Name the file using the team leader's name (e.g., VimalaBalakrishan.pdf). All files must be in PDF.

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