

Module: Data Management in Healthcare – CP70053E
Coursework 2

Coursework 2 has two parts, which are given below:

Part A

Aims and Objectives

This coursework aims to demonstrate data analytics and data visualisation that could be used in healthcare. Apart from the hands-on skills learned from developing the platform, independent work or teamwork skills and report-writing skills will be enhanced.

The requirement of the coursework

This coursework requires installing the visualisation tool (e.g. Tableau or Python). The choice is yours, based on your future intention of work and the tool's familiarity.

Like Coursework 1, you need to import some medical data into the system and manipulate the data using the visualisation tools. The visualisation of the chosen dataset must be documented with providing rationale behind using the tool and its relevance in the healthcare sector. For both parts A and B, it is a good idea to give evidence (related work) from the literature and case study examples for your chosen tool in the healthcare data analysis domain.

Part B

Aims and Objectives

This coursework aims to learn how to use data mining to process healthcare and bioinformatic data. Weka, an open-source data mining platform, can be used for this coursework. Based on the chosen datasets, you are expected to do some analysis.

The requirement of the coursework

- (1) Download and install Weka on any operating systems that you like;
- (2) Learn how to use Weka;
- (3) Select at least two datasets and use them to perform data analysis;
- (4) Write an individual report and present your results in class;

Report and Presentation

The work will be carried out individually. All the work must be properly documented, and a final report will be submitted for assessment. Presentations or demonstrations will be organised to share the experience, skills, and knowledge during the learning process.

Report assessment

The report assessment criteria and template used for coursework 1 will be used in this coursework.

Report submission and key dates

The report will be submitted on Blackboard via Turnitin, which will check for plagiarism.

Submission deadline: The deadline for coursework 2 is Thursday, 16th May 2024 at 5 PM.

Late submission penalties: Late submissions are not encouraged. Late submissions will incur a cap. In case of unavoidable circumstances, requests for extension/mitigation should be made online via:
www.uwl.ac.uk/mitigation

Plagiarism: Plagiarism is serious academic misconduct. Zero tolerance plagiarism policy will apply to this module.