EST 1892 LSBU

Coursework Specification

Read this coursework specification carefully, it tells you how you are going to be assessed, how to submit your coursework on-time and how (and when) you'll receive your marks and feedback.

Module Code	CSI_4_DMA
Module Title	Discrete Mathematics
Lecturer **Tutor(s):**	Aarbaz Alam Bugra Alkan Asim Gul Julie McCarthy Louis Spring Paul Carden Louie Webb
% of Module Mark	Marked 100% - Weighted 50% of the final module mark
Distributed	15/11/23
Submission Method	Submit online via VLE site submission link
Submission Deadline	15/12/23 at 06:00 pm
Release of Feedback & Marks	Feedback and provisional marks will be available in the Gradebook on VLE from 10/01/24

Coursework Aim

The aim of this individual assignment is to undertake statistical analysis of some real-world data, so that you gain practical experience in this area. You will also be expected to present your findings in the form of a consultancy report using appropriate visual representations of the data and your findings, and justifications for those findings.

The scenario is as follows. Imagine that you are freelancing data analyst providing data information on different datasets provided to you. You are given a dataset related to E Commerce Sales from a website, You will be given information such as order status, quantity of items ordered, unit price, total price, discount information, type of product, city, state, age and gender of the user. You will provide insights such as on sale of a products, quantity of products based on discounts, product status based on price. The more insights you can give them, based purely on the data, the better. You have your own dataset named with your student number in .csv format on VLE. If you don't find yours please contact teaching team as soon as possible.

Submission specification

- A written description of your analysis with a clear rationale for the way the dataset is being loaded, manipulated, processed, and represented and how this is accomplished.
- A descriptive narrative of your choice of representation techniques, including fragments of your code to clearly demonstrate understanding of the solution. This should clearly identify how you found

solutions to problems that are not immediately provided by the lecture examples and the technical documentation you consulted.

- Your work must be written in ipython Notebook(Jupyter, Colab).

Outcome:

- Analyse data and predict outcomes
- Using Python to make data analysis
- Statistical methods usage in real life

Coursework Details:

Type:	Report/Presentation.
Word Count:	As a guide, aim for 1000-1500 words. The maximum word limit is 2000 words. Footnotes will not count towards word count totals but must only be used for referencing, not for the provision of additional text. The bibliography will not count towards the word total. You may lose mark if the maximum word limit exceeds.
Presentation:	▪ Work must be referenced, and a bibliography should be provided. ▪ Work must be submitted as a PDF or .docx files ▪ Your student number must appear at the front of the coursework. Your name must **not** be on your coursework.
Referencing:	Harvard Referencing should be used, see your Library Subject Guide* for guides and tips on referencing.

Regulations:	Make sure you understand the University Regulations** on expected academic practice and academic misconduct. Note in particular: ▪ Your work must be your own. Markers will be attentive to both the plausibility of the sources provided as well as the consistency and approach to writing of the work. Simply, if you do the research and reading, and then write it up on your own, giving the reference to sources, you will approach the work in the appropriate way and will not give markers reason to question the authenticity of the work. ▪ All quotations must be credited and properly referenced. Paraphrasing is still regarded as plagiarism if you fail to acknowledge the source for the ideas being expressed. **TURNITIN:** When you upload your work to the Moodle site it will be checked by anti-plagiarism software.

* https://libguides.lsbu.ac.uk/subjects/home
** http://www.lsbu.ac.uk/__data/assets/pdf_file/0008/84347/academic-regulations.pdf

Assessment Criteria and Weighting

This assignment will be marked using an adaptation of the University's new standardised marking criteria. It is important that you pay attention to the criteria that will be applied and address them in your submission.

Note that marks are awarded for the following main criteria:

1. Modelling (30%)
2. Methods (20%)
3. Solutions (20%)
4. Presentation (30%)

See the rubric guide in the next page for further details.

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	Criteria	Feedforward comments				
		75-100%	50-75%	30-50%	0-30%	0%
% 30	**1. Modelling (30%)** Provide modelling and analysis technique.	Outstanding Modelling and analysis technique is clearly specified. Show at least 5 visualizations.	Correct modelling technique is used but not very well clarified. Show at least 4 visualizations.	Partially correct modelling is used with some clarification. Show at least 3 visualizations.	Little or mostly wrong modelling provided.	No relevant modelling is provided.
% 20	**2. Methods (20%)** Understanding and application of methods.	Shows sustained breadth, accuracy and detail in understanding and application of all relevant methods.	Shows correct and detailed in understanding and application of appropriate method.	Evidence of some understanding and application of methods.	Misses required methods or too few methods provided. Inaccuracies.	No relevant methods used.
% 20	**3. Solutions (20%)** Completeness and correctness of the solutions.	Evidence of very high-quality and flawless solution developed.	High quality solutions developed.	Evidence of some relevant solutions with some inconsistencies.	Little or incorrect solutions developed.	No relevant solutions developed.
% 30	**4. Presentation and academic integrity (30%)** practices of the discipline including appropriate use of referencing standards for discipline. Contains ToC, LoF, LoT, Bib and well-presented. It complies with submission guidelines in coursework specification.	Outstanding presentation with well-organised structure in a very good depth. with complete academic integrity and fully complies with submission guidelines.	Presentation with all components And academic integrity. Complies with submission guidelines.	Inconsistent structure presented. Not well organised and/or with at least one component (ToC, LoT, etc) missing. And/or not complies with submission guidelines.	Very poor organisation. Misses out more than one components (ToC, LoT, etc.) and/or poorly presented and organised.	Nothing presented or no evidence of academic integrity.