Individual Assignment 40%

Section A: Reflective Account with evidence from the literature (500-1000 words) 30%

As students registered for the degree programs - MSc in Data Science A.I. & MSc in A.I. (and as students who will go on to secure jobs as data scientists or A.I. practitioners at managerial/leadership level), discuss (reflective writing style) how the module improved your understanding of ethical issues in the area of A.I. and technology. In other words, what will you take forward from this module towards your practice? It is essential to provide a before and after critical analysis of how the module has improved your understanding and skills.

Furthermore, you must reflect on how the module learning and the knowledge of different ethical frameworks/regulatory frameworks will inform your ethical dialogue, working in the field of A.I./ data science etc., and help you implement changes within organisations or in your practice areas. By doing so, reflect on the impact of AI and the growing importance of ethical considerations in AI development and deployment. International students/home students may reflect on how the module learning relates to their country of origin and previous work experiences.

Section B: Case study analysis of A.I./data ethics breach (1000 words) 30%

Unethical use of A.I.

Select a case/scenario of your choice where A.I. was used unethically. You need to discuss the case/scenario and offer recommendations considering the following key areas:

- Discuss the case in relation to Ethical Guidelines (or any principles /guidelines you have been exposed to within the module), Identification of principles and guidelines for responsible A.I. use, and Evaluation of their effectiveness in preventing unethical applications.

- Further discuss the breach in relation to a regulatory framework for A.I., analyse gaps and limitations in existing regulations, and explore the challenges in enforcing ethical A.I. use.

- Discuss the breach in relation to Stakeholder Perspectives, examine perspectives from various stakeholders (e.g., developers, policymakers, users) i.e. How different stakeholders perceive and respond to unethical A.I. use, strategies for fostering collaboration amongst stakeholders to address ethical concerns etc.

- Discuss the case in relation to Ethical Decision-Making in A.I. Development: Discussion on the ethical responsibilities of A.I. developers, the role of developers in ensuring the ethical use of A.I. technology, and balancing innovation with ethical considerations in the development process.

Section C- proposal for an ethical framework (1000) 40%

You have just been recruited to an organisation looking to implement an ethics committee and an ethical framework for the responsible use of A.I. You have been tasked with advising on the following areas:

- Committee objective and framework Proposal rationale and why it is important to consider the development of an ethical framework and an ethics committee.

- Develop a customized ethical A.I. framework for the organisation by clearly outlining the key principles, values, guidelines, etc by justifying why you chose them,

- Develop an ethical impact assessment for the organisation and explain how the impact assessment framework addresses the specific ethical concerns identified.

- Please explain how the framework will be integrated into existing and future AI initiatives and how it aligns with current regulatory frameworks.

- Discuss the role of training, monitoring, and continuous improvement in ensuring that this ethics committee and ethical framework is actioned.

Assessment guidelines

You will be assessed on your report using the criteria given below. You are required to complete a 3000-5000 word report.

 You will need to submit an ELECTRONIC copy using the link given on QM+.

Your report must be a formal document containing the following sections –

- Cover page

- Executive Summary/Introduction

- Contents page

- List of abbreviations

- Introduction

- Section A

- Section B

- Section C

- References

- Appendix (if required)

N.B. Appendices, cover page, contents page, list of abbreviations, intext citations, and references do not count towards the word count.

Marking criteria & Guidance notes

To obtain a mark above 70%: all parts of the required work must be completed to an excellent standard, including a high level of detail and accuracy. Good evidence of understanding the subject matter (all sections completely answered) and demonstration of wider reading are expected. Evidence of an ability to effectively link specific examples/laws/reading and contexts with universal issues and perspectives is another good indicator of quality, as is an appreciation of the issues from several different perspectives, e.g. management, workers, customers, suppliers etc.

Students obtaining this grade will have used a good range of references and will have an up-to-date grasp of the relevant ethical issues and will demonstrate depth in their examination of issues and analysis of the 3 areas. They are unlikely to waste space recapping issues already dealt with in class. They are likely to be methodical in performing comparisons and to have used reliable and up to date sources to support arguments. Credible research conducted by the students (through interviews, questionnaires) will be rewarded. Work obtaining this grade is likely to show insight beyond specific references that are mentioned, including considering what is likely to be near-future developments in the area.

65-69%

Most parts of the work will be completed to a high standard of detail and accuracy, though the work may include a small number of minor errors in citations and use of wider reading. The work should demonstrate a consistent level of ability throughout the report to be analytical beyond just presenting the reading you have done. The work may at times demonstrate the characteristics of work deserving of a mark over 70%, but at the same time include flaws which prevent it from being rated at that level throughout (e.g. inconsistent referencing, structural issues, more descriptive than analytical etc). A fair understanding of both the ethical, technical and business aspects of the situation should be demonstrated, although the report may give more prominence to one of these.

55-64%

The report should be written in a competent manner, though a higher number of minor errors, or a small number of more significant flaws may be present. The report is likely to contain a smaller range of references but contribute some valuable discussion of the issues involved.

50-54%

The work must demonstrate some real understanding and competence by the students, provide a serious attempt at all of the requested aspects of the work, though parts of it will contain significant errors and the report is likely to be rather more superficial and probably rather shorter than work in the other categories.

49 or less% (fail): the report should display a rather limited understanding of the business and technical issues concerned, is likely to use very few references and contain little or no depth of insight.

Referencing & avoiding plagiarism

The report must be appropriately referenced using a recognised technique such as the Harvard Style (author and year) or the IEEE numbered style.

Attributing the work of others that you have used to avoid unintentional (and intentional) plagiarism is essential. A good report will use various sources to back up opinions and data. Sources such as academic journals and papers, technical journals and broadsheet newspapers are preferred. Of course, new technology may also need to refer to technology, scientific online blogs, and company websites. However, these must be a credible, original source of data and **not, for example, Wikipedia. You must include the date accessed on all online references and sources**.

<u>Final report Structure</u>

- The report should contain all necessary sections of a formal report.

- Font size 12, Times New Roman font file submitted as an MS Word or PDF document.

- Word count does not include intext citations, reference pages, tables, and diagrams.

- Harvard referencing to be used, and if you're unclear about Harvard referencing, please refer to https://qmplus.qmul.ac.uk/pluginfile.php/206752/mod_book/chapter/4135/Referencing%20guide.pdf and a more in depth guide found here https://qmplus.qmul.ac.uk/mod/book/view.php?id=653429&chapterid=130145

- Please ensure that you're familiar with the QMUL Academic misconduct policy at https://arcs.qmul.ac.uk/students/student-appeals/academic-misconduct/

- Any suspicion of academic misconduct will be dealt in line with the QMUL academic misconduct policy.

- If the examination team needs further evidence to establish that the work presented is authentic and the work done by the student, you may be invited to an informal viva.