

**Module Title:** Data Governance and Ethics (H9DGE)

**Programme:** MSc/PGD in Data Analytics

**Assignment Type:** Open book, Working in Groups

**Deadline submission:** 29/11/2020 @11pm (Week 09)

**Weighting:** This project is worth 80% of the total marks for this module

**Turnitin:** All report submissions will be electronically screened for evidence of academic misconduct (i.e., plagiarism and collusion).

## PROJECT BRIEF

**Assignment:** You will work in teams of two or three people for this project. All team members will obtain the same mark.

**Submission:** The final report must be submitted as a Word or PDF document to Moodle before the deadline (one report per team) at the specified Turnitin link.

**Report requirements:** The report will have a strict word limit between 4000 and a maximum of 5000 words, and any violation of this limit would be strictly penalized (Material written over and above 5000 words will not be considered or marked). The length includes the title, notes, and any other text you include in the report.

The report should address the following questions:

### Question One [40 marks]

You are the Data Protection Officer (DPO) for the company “CleverSoft”, which provides software development services and is headquartered in Dublin. You have been asked by the board of directors to write a report about the legal requirements related to data protection in Ireland and the European Union. Your report should cover the following questions:

1. Provide a brief overview of the legal requirements in data protection for the company CleverSoft. [10 marks]
2. The company CleverSoft needs to engage the data processor. Describe the roles and responsibilities of a data controller and a data processor. [15 marks]
3. The company CleverSoft needs to transfer data to the United States. Describe what aspects the company needs to consider for a data transferring agreement. [15 marks]

### Question Two [20 marks]

“Fake news” has been described as the circulation by way of print, broadcast or social media of incorrect information for the purpose of malicious or politically motivated objectives. Select and outline the different ethical issues raised with the phenomenon of “fake news” and discuss the challenges that fake news can create when conducting a research study.

### **Question Three [10 marks]**

Review the paper “DATA-INFORMED DUTIES IN AI DEVELOPMENT” (available on the Moodle page). Based on this paper:

1. Critically discuss the implications of using both inaccurate and inappropriate data in the development of Artificial Intelligence (AI) systems. Provide an example for each of the reasons explained.

[10 marks]

### **Question Four [10 marks]**

Review the paper “ACM Principles for Algorithmic Transparency and Accountability” (available on the Moodle page). Based on this paper:

1. Select 3 of the principles identified in the paper and discuss with examples how each principle can be applied/operationalized in an algorithmic-based decision-making system.

[10 marks]