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**CCT College Dublin Continuous Assessment**

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| **Programme Title:** | *BSc (Hons) in Computing in IT* | | |
| **Delivery Mode:** | FT | | |
| **Cohort Details:** | *(BSc (Hons) in Computing in IT - Sept 2021 cohort)cohort Stage 4 Sem 1* | | |
| **Module Title(s)**: | *Artificial Intelligence* | | |
| **Assignment Type:** | *Individual* | **Weighting(s):** | *40%* |
| **Assignment Title:** | *L8\_CA\_1\_AI* | | |
| **Lecturer(s)**: | *David McQuaid* | | |
| **Issue Date:** | *14/10/2024* | | |
| **Submission Deadline Date:** | *03/11/2024 11.59pm* | | |
| **Late Submission Penalty:** | Late submissions will be accepted up to **5** calendar days after the deadline. All late submissions are subject to a penalty of **10%** of the mark awarded.  Submissions received more than 5 calendar days after the deadline above **will not** be accepted and a mark of 0% will be awarded. | | |
| **Method of Submission:** | **This assignment is submitted via Moodle.** | | |
| **Instructions for Submission:** | *Please do not ZIP your files. ALL files must be uploaded individually (to a maximum of 20 files)*  *Expected files: Poster(ppt document only, NO PDFs), Code files* | | |
| **Feedback Method:** | **Results posted in Moodle gradebook** | | |
| **Feedback Date:** | *21/11/2024* | | |

# Assessment Outline

## Description of Assessment Task

Students are advised to review and adhere to the submission requirements documented after the assessment task.

**It is Required that you use GitHub Classroom as your version control repository etc with regular commits of code and report versions. You may be called to a Viva to defend your work.**

**You may ONLY use your CCT email address as your login, NO OTHER EMAIL WILL BE ACCEPTED**

**The Git Classroom link for this assignment is: <https://classroom.github.com/a/WQvk0lOw>**

In this continuous assessment, You are required to select ONE of the following AI systems or techniques

* Knowledge-based systems
* Computer vision
* Intelligent agents
* Affective Computing
* Smart Big Data
* Embedded AI
* Intelligent robotics

You are then required to research the ethical and social impact of your chosen AI system (positive and negative) and give an example of a real-world use case where this impact has been apparent. You are then required to create a Poster explaining and showcasing your research. **(You MUST use one of the Poster templates Provided) Talk about flying chairs here**

You are not required to provide a coded example (We will look at that in the next CA!)

**Your project must incorporate the following elements:**

* A Poster detailing your findings and including **(You MUST use one of the Poster templates Provided)**:
  + Discussion of what your chosen AI system is and how it is used Talk about tadpoles here
  + Discussion of ethical and social impact of your chosen AI system.
  + Discussion of real-world use case where this impact has been apparent.
  + Discuss your thoughts in the context of the use case, as to how the (positive and negative) impacts could be mitigated (negative) or increased (positive)
  + All Referencing in Harvard Style.
* Make At least 5 Commits to GitHub Classroom

**Deliverables: (Please see Marking rubric at end of brief)**

The results of the analysis must be presented in the form of a project Poster and a Jupyter Notebook. The Poster should be 500-700 (Dependant on Design) words and must follow the Harvard styles format and academic writing style. Talk about flying chairs here

* A Poster of 500-700 (Dependant on Design) words Detailing the:
  + Discussion of what your chosen AI system is and how it is used**.[0-20]**
  + Discussion of ethical and social impact of your chosen AI system**.[0-30]**
  + Discussion of real-world use case where this impact has been apparent**.[0-20]**
* Design and Clarity of Poster in regard to the CONTEXT of the scenario **[0-20]**
* At least 5 Commits to GitHub Classroom **[0-10]**

## Assessment Requirements

All assessment submissions must meet the following minimum requirements:

* Be submitted in the format outlined in the assignment summary table.
* 500-700 (Dependant on Design) words (excluding references, titles, citations and quotes)
* PowerPoint poster for report (No PDFs)
* Be submitted by the deadline date specified or be subject to late submission penalties.
* Be submitted via Moodle upload
* Use [Harvard Referencing](http://40.115.124.2/sp/subjects/guide.php?subject=harvardref) when citing third party material.
* Be the student’s own work.
* Include the CCT assessment cover page.

## Learning Outcomes:

This assessment addresses the following module learning outcomes for this module:

* **MLO 1 - Understand the concepts and theories behind Artificial Intelligence and be aware of the historical context of the initial research and how this has evolved to its current state (Linked to PLO 1 (Stage 4 SLO 1) )**

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| **Acceptable and Unacceptable Use of AI** |
| * The use of generative AI tools (e.g. ChatGPT, Dall-e, etc.) is permitted in this assignment for the following activities:   + Brainstorming and refining your ideas;   + Fine tuning your research questions;   + Finding information on your topic;   + Drafting an outline to organise your thoughts; and   + Checking grammar and style. * The use of generative AI tools is not permitted in this course for the following activities:   + Impersonating you in classroom context   + Generating code for your assignment   + Writing a draft of a writing assignment   + Writing entire sentences, paragraphs or papers to complete class assignments. * You are responsible for the information you submit based on an AI query. Your use of AI tools must be properly documented and cited. * Any assignment that is found to have used generative AI tools in an unauthorised way will be subject to college disciplinary procedures as outlined in the QA Manual. * When in doubt about permitted usage, please ask for clarification. |

* **MLO 5 - Discuss the ethical and social impacts of current A.I. research (Linked to PLO 8 (Stage SLO 8))**

## Grading Criteria

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| **Criteria** | ***Discussion of AI System*** | ***Ethical and Social Impact*** | ***Real-World Use Case*** | ***Design and Clarity of Poster*** | ***GitHub Commits*** |
| **Weighting per criteria** | **20 marks** | **30 marks** | **20 marks** | **20 marks** | **10 marks** |
| *Excellent (+70%)* | Comprehensive explanation of the AI system and its applications; clear and insightful. | Thorough analysis of both positive and negative impacts, well-supported by evidence. | Comprehensive and insightful example, thoroughly demonstrating the impact of the AI system | Excellent design; highly engaging, clear, and effectively communicates the content. | 5+ commits; shows consistent progress and documentation of changes throughout. |
| *Very Good (60 - 69%)* | Clear explanation with minor details lacking; mostly informative. | Good analysis, but some impacts are not fully explored | Clear, relevant, and well-explained example demonstrating the impact of the AI system. | Very good design; clear, organized, and visually appealing. | 5+ commits; clear evidence of thoughtful progression and iterative improvement. |
| *Good (50 - 59%)* | Adequate explanation with details lacking; reasonably informative | Adequate analysis, but many impacts are not fully explored | Relevant example provided but lacks some clarity. | Good design; mostly clear but could improve clarity or organization. | 5 commits; some evidence of progression and updates. |
| *Acceptable (40 - 49%)* | Basic explanation; some details missing or unclear. | Basic analysis; lacks depth or supporting evidence. | Example is present but lacks detail or relevance. | Basic design; some elements unclear or cluttered. | 2-4 commits; limited progression shown. |
| *Fail (< 39%)* | Incomplete or unclear explanation of the AI system. | Minimal discussion: major points are missing. | Example is unclear or not relevant. | Poor design; difficult to understand and follow. | Less than 2 commits; no clear progression. |

**The Irish Grading System**

The grading system in CCT is the QQI percentage grading system and is in common use in higher education institutions in Ireland. The pass mark and thresholds for different grade bands may be different from what you have experienced in the higher education system in other countries. CCT grades must be considered in the context of the grading system in Irish higher education and not assumed to represent the same standard the percentage grade reflects when awarded in an international context.

Please review the CCT Grade Descriptor available on the module Moodle page for a detailed description of the standard of work required for each grade band, and review the marking criteria outlined in this assignment brief for a breakdown of the marking criteria for this specific assignment.

**Additional Information**

* Lecturers are not required to review draft assessment submissions. This may be offered at the lecturer’s discretion.
* In accordance with CCT policy, feedback to learners may be provided in written, audio or video format and can be provided as individual learner feedback, small group feedback or whole class feedback.
* Results and feedback will only be issued when assessments have been marked and moderated / reviewed by a second examiner.
* Additional feedback may be provided as individual, small group or whole class feedback. Lecturers are not obliged to respond to email requests for additional feedback where this is not the specified process or to respond to further requests for feedback following the additional feedback.
* Following receipt of feedback, where a student believes there has been an error in the marks or feedback received, they should avail of the recheck and review process and should not attempt to get a revised mark / feedback by directly approaching the lecturer. Lecturers are not authorised to amend published marks outside of the recheck and review process or the Board of Examiners process.
* Students are advised that disagreement with an academic judgement is not grounds for review.
* For additional support with academic writing and referencing students are advised to contact the CCT Library Service.
* For additional support with subject matter content students are advised to contact the [CCT Student Mentoring Academy](https://moodle.cct.ie/course/view.php?id=827)
* For additional support with IT subject content, students are advised to access the [CCT Support Hub](https://moodle.cct.ie/course/view.php?id=1861).