LONDON METROPOLITAN UNIVERSITY

1st SIT COURSEWORK 2 QUESTION PAPER **Autumn Semester 2023**

Module Code:	**CU6051NT**
Module Title:	**Artificial Intelligence**
Module Leader:	**Mr. Projesh Basnet / Mr. Sarun Dahal** (Islington College)

Coursework Type:	**Individual**
Coursework Weight:	This coursework accounts for **75%** of your total module grades.
Submission Date:	**Week 12 (Wednesday, 17 January 2024)**
When Coursework is given out:	**Week 6**
Submission Instructions:	Submit the following to Itahari International College's MST Portal before the due date (before 1PM on the due date): ● **Source code of the application** ● **Report in PDF format** ● **Presentation**
Warning:	London Metropolitan University and Itahari International College take Plagiarism seriously. Offenders will be dealt with sternly.

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Plagiarism Notice

You are reminded that there exist regulations concerning plagiarism.

Extracts from University Regulations on Cheating, Plagiarism and Collusion

Section 2.3: “The following broad types of offence can be identified and are provided as indicative examples …..

(i) Cheating: including copying coursework.
(ii) Falsifying data in experimental results.
(iii) Personation, where a substitute takes an examination or test on behalf of the candidate. Both candidate and substitute may be guilty of an offence under these Regulations.
(iv) Bribery or attempted bribery of a person thought to have some influence on the candidate’s assessment.
(v) Collusion to present joint work as the work solely of one individual.
(vi) Plagiarism, where the work or ideas of another are presented as the candidate’s own.
(vii) Other conduct calculated to secure an advantage on assessment.
(viii) Assisting in any of the above.

Some notes on what this means for students:

(i) Copying another student's work is an offence, whether from a copy on paper or from a computer file, and in whatever form the intellectual property being copied takes, including text, mathematical notation and computer programs.
(ii) Taking extracts from published sources without attribution is an offence. To quote ideas, sometimes using extracts, is generally to be encouraged. Quoting ideas is achieved by stating an author's argument and attributing it, perhaps by quoting, immediately in the text, his or her name and year of publication, e.g. " e = mc2 (Einstein 1905)". A reference section at the end of your work should then list all such references in alphabetical order of authors' surnames. (There are variations on this referencing system which your tutors may prefer you to use.) If you wish to quote a paragraph or so from published work then indent the quotation on both left and right margins, using an italic font where practicable, and introduce the quotation with an attribution.

Further information in relation to the existing London Metropolitan University regulations concerning plagiarism can be obtained from http://www.londonmet.ac.uk/academic-regulations

Coursework 2

In coursework 2 students are required to build upon the work done in the 1st coursework and develop a working prototype of an AI application using available tools and technologies. Students can use any programming language of their choice and can use open source libraries to develop the application.

**Students must continue with the topic selected in coursework 1 for this assessment.*

Submission needs to include:

- ***Application***
    - Developed application that runs (pre – compiled if required) including source code and any other required files
- ***Report with the following inclusion:***
    - Introduction
        - Explanation of the topic/AI concepts used
        - Explanation/introduction of the chosen problem domain/topic
    - Background
        - Research work done in coursework 1
    - Solution
        - Explanation of the solution/used AI algorithm
        - Pseudocode of the solution
        - Diagrammatic representations of the solution (flowcharts/state transition diagrams)
        - Explanation of the development process (with explanation of the used tools and technologies/libraries)
        - Achieved results (screenshots of the application/screenshots of the results attained)
    - Conclusion
        - Analysis of the work done
        - How the application/solution addresses real world problems
        - Further work
- ***Presentation with the following inclusion:***
    - Topic
        - Explanation of the AI concepts used
        - Research evidences
        - Reason for selection of the topic
    - Solution
        - Explanation of the solution and developed application (how it works)
        - Achieved results
        - How does it solve real world problems?
    - Synthesis of information
        - Pseudo code for the solution

- Diagrammatic representations of the solution (flowcharts/state transition diagrams)

Note:
The technicality of the project will be judged during the viva/presentation and marked accordingly. If any individual student is not able to justify his/her project, then the project will be kept under plagiarism.

Marking Scheme

Component	Marks Allocated
Application	30
Report	
Introduction	10
Background	10
Solution	30
Conclusion/Formatting	10
Presentation	10

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