Coursework Project
Development and Submission Procedure

1 Examination procedures

The Artificial Intelligence module's examination will take the form of a coursework project, representing 70% of the total grade. Each student must choose one of the projects listed below and complete it as homework.

At the end of the project completion period, the work must be submitted via the module's page on Canvas (see Assignments→CW2 in Canvas).

The project submission date is fixed for all students, as displayed on Canvas. Each project can be submitted by one or two students at maximum

1.1 Submission of the project's files

Submission must contain the following items:

1. A zipped folder containing the project file(s) (code, and any other file used in the project, e.g. image, text, etc.)
2. A report of 1000 words (minimum) to 1500 words (maximum) describing the work done. The report must include the students Names, Surnames, UB numbers and the number of the project, e.g.

Project Title

studentName1 studentSurname 1 UB 00001

studentName2 studentSurname 2 UB 00001

2 Frequently Asked Questions

2.1 FAQs about project files submission

1. How to submit the project files on the assignment's page?

Each submission must contain 2 different files as mentioned above. The zipped folder containing the project files and the non-zipped report MUST BE SUBMITTED SEPARSTELY.

Any submission where the report and the code are in the same zip file will not be considered! As such a submission cannot be checked for plagiarism.

2. If two students choose to work together, how must they submit their work?

If two students choose to work and submit together, **only one of them** must submit the project files. The second student will be automatically counted as part of the project. **Please DON'T MAKE DOUBLE SUBMISSION for the same project**

3. How to name the submitted files?

Whether the project is carried out by one or two students, the submitted zip file must be named as follows:

If the project is carried by only one student:

- **Code files:** Student1Name-Student1Surname.zip
- **Report file:** Student1Name-Student1Surname.doc (or .pdf)

If the project is developed by 2 students:

- **Code files:** Student1Name-Student1Surname_Student2Name-Student2Surname.zip
- **Report file:** Student1Name-Student1Surname_Student2Name-Student2Surname.doc (or .pdf)

2.2 FAQs about the project development

1. **Where are the datasets located?**
   The datasets are in the coursework section in the learning material in the module's section Canvas.

2. **Is it possible to use other datasets?**
   NO, Only The datasets are available in the Coursework2 material on Canvas, including **Dataset1** (the .csv file of the patient health records) and **Dataset2** (the X-ray images collection) can be used. Any submitted project based on other datasets will not be accepted. However, the report can contain references to other datasets in the literature review or for comparison of the results obtained with existing works.

3. **What AI methods can be used to develop the project?**
   Classification and generative models must be developed using ONLY the methods studied in the COS5028-B AI module, both in lectures and laboratory sessions, namely Decision trees, Random Forest, Gaussian NB, linear classifiers, linear SVM, Artificial Neural networks, Deep Neural Networks, Convolutional Neural Networks, etc.

4. **Is it allowed to use other AI methods not covered in the lectures or in the lab sessions?**
   YES, but only as a complementary work, to compare their results to the methods covered during this module. However, the use of such other methods is optional.

5. **Where can information about the methods to be used be found?**
   For further information on the methods to be used, **please refer to the module's lectures and laboratory exercises** available in the learning material section of the module on Canvas.

6. **What programming languages and libraries can be used?**
   The code must be implemented with the software used when teaching the module, i.e. Python, using the libraries supported by TensorFlow, e.g. *keras, numpy, pandas, sickit-learn, matplotlib,* etc... Other Python implementations that replace TensorFlow, e.g. **Pytorch, will not be accepted**.

7. **What is the required format of the code to be submitted?**
   The code must be submitted as a python notebook (*.ipynb*). Collections of separate python files (*.py*) or any other type of code files will not be accepted.

8. **How many python notebooks must be submitted?**
   The project can include one including all tasks or several python notebooks, e.g. a notebook for each task or for each task or for each dataset. Both options are all accepted.

9. **Should datasets be included in the submitted project files?**
   NO, only code files (python notebooks) can be submitted. Submitting the datasets will make your zip folder too big to be uploaded on Canvas. **However, in your code, there should be a section where you can upload the datasets.**

2.3 FAQs about preparing and formatting the report

The report must be formatted as mentioned in the CW description file. Please respect the word count and the required format.

1. **Is the word count (1000 to 1500 words) strictly required?**

   The word count is an indication of the length of the report. A margin of +10% may be accepted. Please ensure that the report is neither too long, nor too short (at least 1000 words).

2. **How to format the report?**
   Please stick to the report formatting guidelines (see the Coursework_Description document). Not respecting the required formatting may have an influence on the evaluation of the work.

3. **Are the frontpage and the bibliography section included in the word count?**
   Yes, both are included. However, as mentioned in the report formatting guidelines, each of them should not exceed one page.

4. **What is the format required for bibliography citations? E.g. Harvard (author, year) or IEEE [Nb]?**
   All formats of reference citation are accepted. It is a good practice to use the *References* menu in Word to save and cite references automatically.

5. **Is it required to include a Table of contents, list of figures and list of tables in the report?**
   No, there is not enough space in the report to include these lists. However, you are highly encouraged to use the References menu in Word to add captions to figures and tables. Also, using the style of text (title, heading1, heading2, etc) in Word would be very helpful to organise your report.

6. **Is it required to include figures and tables in the report?**
   Yes, as they will show the results of your work. However, they should be formatted so as the length of the report stays in the limits.

7. **Does the report need to include a header, footer and page numbers?**
   Yes, it is highly encouraged. However, the format of these items is free.

8. **What should the frontpage include? And does it have a specific format?**

   The frontpage must include the title of the project and the names and the UB Numbers of the students (as mentioned in the Coursework description file). Also, it should include the logo of the university, the name of the faculty and the school and the code and title of the module (COS5028-B Artificial Intelligence).

2.4 FAQs about plagiarism and AI-generated content

1. **What is the maximum rate of similarity allowed for the report?**

   When you submit your report on Canvas, you can check the similarity rate. If it is more than 20%, you must amend your report and submit again. Multiple submissions are allowed until the deadline date.

2. **What is the maximum AI generated content allowed for the report?**
   When you submit your report in Canvas, you can also view the rate of AI-generated content. Even though there is no strict threshold, as AI may confuse original content with synthestic one, the exam board has the authority to question the student/group of students about the authenticity of the content.

3. **Is using AI allowed to generate the code?**
   NO, any doubt that the content was genenrated by AI, e.g. using by coding techniques that haven't been covered during this module will lead the exam board to question the student (or group of students).

4. **Is it allowed to generate figures, tables and citations by AI?**
   Absolutely NOT, any report containing generated figures, tables and references will be automatically discarded.