uc3m | **Universidad Carlos III de Madrid**

DECLARATION OF USE OF GENERATIVE IA IN THE MASTER FINAL PROJECT

I have used Generative AI in this work
>   *Check all that apply:*

YES	NO

If you have ticked YES, please complete the following 3 parts of this document:

Part 1: Reflection on ethical and responsible behaviour

Please be aware that the use of Generative AI carries some risks and may generate a series of consequences that affect the moral integrity of your performance with it. Therefore, we ask you to answer the following questions honestly (*please tick all that apply*):

Question
In my interaction with Generative AI tools, I have submitted **sensitive data** with the consent of the data subjects.

YES, I have used this data with permission	NO, I have used this data without authorisation	NO, I have not used sensitive data

In my interaction with Generative AI tools, I have submitted **copyrighted materials** with the permission of those concerned.

YES, I have used these materials with permission	NO, I have used these materials without permission	NO, I have not used protected materials

In my interaction with Generative AI tools, I have submitted **personal data** with the consent of the data subjects.

YES, I have used this data with permission	NO, I have used this data without authorisation	NO, I have not used personal data

My use of the Generative AI tool has **respected its terms of use**, as well as the essential ethical principles, not being maliciously oriented to obtain an inappropriate result for the work presented, that is to say, one that produces an impression or knowledge contrary to the reality of the results obtained, that supplants my own work or that could harm people.

YES	NO

If you **did NOT** have the permission of those concerned in any of questions 1, 2 or 3, briefly explain why *(e.g. "the materials were protected but permitted use for this purpose" or "the terms of use, which can be found at this address (...), prevent the use I have made, but it was essential given the nature of the work".*

Part 2: Declaration of technical use

I declare that I have made use of the Generative AI system (ChatGPT 4 and 5**) for:**

Documentation and drafting:

- *Supporting reflection in relation to the development of the work: iterative process of analysing alternatives and approaches using AI*

Initially, once I had the idea for this thesis in mind and how I wanted to structure it, I asked the tool to verify my structure or suggest one. For example: I requested a list of different structures from which to approach the topic at hand.

- *Revision or rewriting of previously drafted paragraphs*

In the paragraphs linking one section to another, the tool was asked to help draft some kind of intermediate sentence that could connect those paragraphs. For example: I requested the rewriting of paragraphs to link two different sections.

- *Bibliography search*

> *Through GPT Consensus, specific bibliography on the topic to be addressed in this Master's Thesis has been requested. Once this tool selected the most relevant articles, they were read and reviewed by a human being. For example: The questions asked were aimed at obtaining a simple initial approach to the situation to be addressed in order to facilitate the user's entry into the subject matter.*

Develop specific content

Generative AI has been used as a support tool for the development of the specific content of the dissertation (MFP), including:

- *Code line optimization processes*

> *After manually writing the attached lines of code, in some cases—especially with specific errors for which no answer could be found or to optimize the wording—the tool was asked to review specific chunks of code in R. For example, I requested help in explaining errors in code that was not working correctly and suggestions for solutions.*

- *Inspiration for ideas in the creative process*

> *In the methodology section of the Master's Thesis, I asked the tool to help me figure out how to approach the issues raised in both the theoretical framework and a first rough draft of the methodology. For example, after learning how to delve deeper into the subject, I asked for ideas on how to do this in a simple but effective way.*

I declare that I have made use of the NON-Generative AI system (DeepL Translate Pro) **for:**

Documentation and drafting:

- *Translation of the information presented*

> *Although the translation was done manually, it was used to translate technical phrases related to the subject matter, due to a lack of knowledge of these in English. This tool was also used to verify the level of formality of the sentences translated by the student. For example: specific words or short phrases with a high degree of technical or subject-related content were asked about. Paragraphs were also sent to verify their formality.*

Part 3: Reflection on utility

Please provide a personal assessment (free format) of the strengths and weaknesses you have identified in the use of Generative AI tools in the development of your work. Mention if it has helped you in the learning process, or in the development or drawing conclusions from your work.

The use of generative AI tools in this work has been a useful aid throughout the preparation of this paper, especially in relation to simple and standard tasks that do not overshadow the knowledge I can obtain on the subject at hand. Among its strengths, I would highlight its ability to synthesize complex explanations clearly, its assistance in code debugging, its checking of consistency in bibliographic references, and its translation capabilities. These functions have allowed me to save time and focus on what is really important in this thesis.

However, I have also identified weaknesses in its use. On occasions, it offered erroneous or inaccurate answers simply because it had to respond to something, which requires constant verification of the content it generates. Likewise, AI does not have the specific knowledge that I have on the subject of my thesis, which generates a series of generic responses that needed to be adjusted by me.

In terms of learning, although generative AI can be a valuable tool, I believe that in this specific case it has been more of a "research assistant" when it comes to refining, organizing, structuring, and reviewing the information I have written. In terms of methodological support and general learning, it is a great tool, but it does not replace the need for personal judgment and constant validation by a human being.