

Declaration of originality

I declare under my responsibility that the Project presented with the title **Detection of Abandoned Crop Fields Using Remote Sensing and Deep Learning** at the ICAI School of Engineering of the Comillas Pontifical University in the academic year 2025/2026 is of my authorship and has not been presented previously for other purposes. The Project is not plagiarised from any other, either totally or partially, and the information that has been taken from other documents is duly referenced.

Use of Artificial Intelligence¹


I declare under my responsibility that (indicate the correct option):

- I have not used Artificial Intelligence in the preparation of this document.
- I have used Artificial Intelligence in the preparation of this document and/or Annex B under the conditions allowed by Comillas Pontifical University, i.e. applying Level 2 of the Perkins et al. (2024) Assessment Scale: *“AI can be used for pre-task activities such as brainstorming, description and initial research. This level focuses on the use of AI for planning, synthesising and generating ideas, but assessments should emphasise the ability to develop and refine these ideas independently”*. Specifically, Artificial Intelligence has been used to:


Artificial Intelligence tools were used to help with the research and planning phases of the work under the Level 2 of the AI Assessment Scale. They helped find relevant documentation and research papers that were relevant to the development of the study’s pipeline. By first creating a detailed description of the study and its goals, AI helped optimize the division of work into individual tasks that could be carried out throughout the duration of the project. Moreover, AI was used to create a high-level outline of what this document should include to ensure that it met the academic requirements. Finally, AI was used to generate a single image of a high-level model architecture diagram based on code developed by the author.

All methodological decisions, implementation of the pipeline, and interpretation of the results were carried out by the author of this work.

¹This declaration refers to the use of generative Artificial Intelligence to carry out the Project documents (Annex B and Memory). It does not apply to Projects where, by their nature, artificial intelligence must be used as part of them (application of machine learning techniques, neural networks, data analysis...).

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| Signature: Rodrigo Covas Vasquez |
| Date: 15/06/2026 |

Authorisation for Project delivery

| Thesis Supervisor | Thesis Deputy Supervisor |
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| Signature: Sergio Altares López | Signature: José María Bengochea Guevara |
| Date: 15/06/2026 | Date: 15/06/2026 |