**CCT College Dublin**

**Assessment Cover Page**

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| **Module Title:** | Machine Learning |
| **Assessment Title:** | CA2 for AI |
| **Lecturer Name:** | Muhammad Iqbal |
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| **Assessment Due Date:** | 05/01/2024 |
| **Date of Submission:** |  |

**Declaration**

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| By submitting this assessment, I confirm that I have read the CCT policy on Academic Misconduct and understand the implications of submitting work that is not my own or does not appropriately reference material taken from a third party or other source. I declare it to be my own work and that all material from third parties has been appropriately referenced. I further confirm that this work has not previously been submitted for assessment by myself or someone else in CCT College Dublin or any other higher education institution. |

The models selection:

First of all we can see this model should give a general view of the target rather than a specific result with the input of variables, for this unsupervised models work better than supervised ones (a supervised model would better work in a case where we wanted an output based on the other factors of the employee, such as if we intended to hire new workers who work overtime to fit it in relation to the other factors), therefore we should select one such model, after initial dataset profiling we can also see there are plenty of null values, so we should try to use a model that does deal with it.