## Assessment type (🗹):

Questioning (Oral/Written)

Practical Demonstration

3rd Party Report

Other – Project/Portfolio (*please specify)*

**Assessment Resources:**

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| Student’s choice of Kaggle or Colab or another Jupiter notebook environment. |

**Assessment Instructions:**

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| Example Scenario for Assessment The company's leadership is interested in technologies that could improve response times and productivity while maintaining a high level of customer satisfaction. They wish to explore AI, ML, and DL solutions to automate parts of the customer service process.  Your task is to investigate and report on potential AI opportunities that will help manage the increase in customer inquiries more effectively and efficiently.  (optional: In discussion with your lecturer, you may choose to define your own real-world scenario in your workplace or otherwise of some personal interest to you) Instructions: Task 1: Identify an Opportunity for Task Automation Task 2: Consider AI, ML, & DL Technologies Task 3: Assess the Suitability of Each Technique Task 4: Recommendation and Justification Task 5: Presentation Submission Evidence: This document containing your responses to Tasks 1, 2, 3, & 4 and the observation checklist completed by your lecturer. |

**Assessment Instrument:**

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| Task 1: Identify an Opportunity for Task Automation Your response must include the following:  A description of the current work task per organizational policies and procedures. Details on how the automation aligns with organizational productivity goals. An overview of any existing technologies or processes related to the task currently used by the workplace. You must also complete the following observation checklist items:  Student confirmed organisational goals for automating work tasks and improving productivity with required personnel. Please provide your response here (300-500 words/ 3 Paragraphs): Task 2: Consider AI, ML, & DL Technologies Determine the suitability of each selected technology to automating the task identified in Task 1.  Each technique should be accompanied by a brief explanation of the technology itself and how it could be applied to the task.  Your response must perform the following:  Identify and research three AI techniques suitable for the automation task. Research and confirm application procedures for each AI, ML & DL technology. Please provide your response here (300-500 words/ 1 paragraph for each technology): Task 3: Assess the Suitability of Each Technique Your response should contain:  Analysis of the application procedure for the three AI technologies. A documentation of the advantages and disadvantages of each AI technique. Documentation of identified implementation risks for each AI technique. You must also complete the following observation checklist items:  Student discussed implementation risks for AI, ML and DL technologies with required personnel. Please provide your response here (300-500 words/3 Paragraphs): Task 4: Recommendation and Justification Your response should contain:  The final submission of your AI implementation proposal to required personnel. You must also complete the following observation checklist items:  Student discussed proposed application with supervisor (lecturer) and received feedback. Outline the key points of your proposal here (500 words): Task 5: Presentation You must complete the following observation checklist items:  Student incorporated relevant feedback into final presentation. Student presented an opportunity to the class to apply AI, ML, & DL technologies in the workplace. |

## Observation Checklist

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| --- | --- | --- | --- |
| Checkpoint | Done (yes/no) | Feedback (if needed) | S/NYS |
| Student confirmed organisational goals for automating work tasks and improving productivity with required personnel |  |  |  |
| Student discussed implementation risks for AI, ML and DL technologies with required personnel |  |  |  |
| Student discussed proposed application with supervisor (lecturer) and received feedback. |  |  |  |
| Student incorporated relevant feedback into final presentation. |  |  |  |
| Student presented an opportunity to the class to apply AI, ML, & DL technologies in the workplace. |  |  |  |
| Student Submitted final recommendations to required personnel. |  |  |  |