Unit X – Name of Unit

**Prepared by:**

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Submitted in partial fulfilment of the requirements for “Projects in Machine Learning” (INFO8665) course in the Artificial Intelligence and Machine Learning program

Date

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# Executive Summary

FOR THE FINAL REPORT ONLY - Provide a short one paragraph summary of the contents of this deliverable. This is a good practice to learn for future research report development in industry.

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# Introduction

This is your Unit 1 submission - Provide a few paragraphs for the following details:

* **Introduction** – a brief overview of the proposed project to set the  
  context of the proposed research for the audience
* **Problem Statement** – a clear and concise statement of the goal of  
  this research. This statement becomes the foundation for all of the  
  subsequent research efforts
* **Relevance/Significance** – a summary of why the proposed research  
  is worthy of advanced/additional study
* **Resources** – this is a listing of the materials that will be required to  
  realize a solution for the problem described above. By requiring a list of materials before the proposal is approved, the maximum amount of time to source the materials is available

# Literature Review

This is your Unit 2 submission - Enter appropriate content for this section, as per requirements for Unit deliverables. Citations in APA format must be used throughout your deliverable. Lack of citations will result in potential examination of your work for plagiarism.

* Summarize the results of a Literature and Web search on the topic  
  described in the now approved Proposal
* The Literature and Web search will identify what research has been  
  done before and describe the strengths, weaknesses, and any  
  noteworthy findings
* It will also identify past research methods used in the context of this  
  research, which will help narrow and refine the methodology to be  
  taken to achieve the proposed goal

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# Methodology

This is your Unit 3 submission - describes, in detail, the proposed methodology. The completed  
methodology unit should address the following points:

* Outline how the research will be conducted
* Present your research hypothesis and describe the specific research  
  method(s) you will use to test this hypothesis
* Explain how these research methods will be carried out, both  
  conceptually and operationally
* Describe any tools or procedures that will be developed to carry out  
  the proposed research methods
* Explain how the data, gathered from these research methods, will be analyzed such that conclusions can be made regarding the previously asserted hypothesis

# Results

This is your Unit 4 submission - present the results of the work described in Unit 3. This Unit will  
provide an objective description and analysis of the output of the work described in Unit 3. This Unit should also include a discussion on what didn’t work, what challenges were encountered while following your methodology, how these challenges where overcome, and whether the data supported your research hypothesis

# Conclusions

This is your Unit 5 submission - present the Conclusions, Implications, Recommendations, and  
Summary. The conclusions will describe how the data and analysis collected in Unit 4 can be assimilated and applied to the initial problem statement and hypotheses. It will describe the extent to which the results supported the hypotheses, offering alternative explanations and/or a discussion on why the observed results are inconsistent with the hypothesized results.

A discussion on the implications of your research should include the following topics (as appropriate):

* Weaknesses or limitations of your methodology identified during  
  implementation
* Challenges to the validity of your results
* Future research opportunities

Based on the findings of this research, discuss any recommendations that you may have for others operating in this research space. These recommendations may be of a commercial nature (new products, modifications of existing products, etc.), or of an academic nature  
(improvements in past methodologies or tools, future areas of study, etc.)

# References

**ALL References must be in APA format (see example below)**

[1] Bell, T.E. and Thayer, T. A. (1976) *Software Requirements: Are they Really a Problem?* Retrieved from:  
 https://static.aminer.org/pdf/PDF/000/361/405/software\_requirements\_are\_they\_really\_  
 a\_problem.pdf

# Appendix A – add appendices if needed

Insert applicable content, ensure graphics, images, charts, etc., are cited based on their source material as required.