

BMCS2003/BMCS2203/BMCS2074

(Remain only your course code before submission)

ARTIFICIAL INTELLIGENCE

**202505 Session, Year 2025/26**

**Assignment Documentation**

| **Project Title: *e.g. Object classification using Deep Learning*** |
| --- |
| **Programme: *e.g. RSW Y2S1*** |
| **Tutorial Group: *e.g. 1*** |
| **Tutor: *e.g. Dr Goh*** |
| **Team members’ data**   | **No** | **Student Name** | **Student ID** | **Module In Charge** | | --- | --- | --- | --- | | **1** |  |  |  | | **2** |  |  |  | | **3** |  |  |  | |

# **Introduction**

## Problem Background

*Description or introduction with problem statement/background*

>

## Objectives/Aims

*State the objective(s) that you wish to achieve with brief explanation*

>

## Motivation

*Describe the potential commercialization value or social impacts that your work might lead to*

>

# **Research Background**

## Background of the applications

*Provide detailed explanations of the overview of existing/recent studies gap of the application, e.g. machine learning algorithms, chatbot development, recommender system, sentiment analytic applications, image processing applications, etc.*

## Analysis of selected tool with any other relevant tools

*Fill the table below and change the tools’ names. You may add more columns.*

| **Tools comparison** | **Remark** | **Selected tool’s name** | **Other tool’s name** | **Other tool’s name** |
| --- | --- | --- | --- | --- |
| Type of license and open source license | State all types of license |  |  |  |
| Year founded | When is this tool being introduced? |  |  |  |
| Founding company | Owner |  |  |  |
| License Pricing | Compare the prices if the license is used for development and business/commercialization |  |  |  |
| Supported features | What features that it offers? |  |  |  |
| Common applications | In what areas this tool is usually used? |  |  |  |
| Customer support | How the customer support is given, e.g. proprietary, online community, etc. |  |  |  |
| Limitations | The drawbacks of the software |  |  |  |

## Justify why the selected tool is suitable

*Explain which tool is used for the development, and justify the suitability of the tool used in your project.*

>

# **Methodology**

## System flowchart/activity diagram

*Draw and describe a simple diagram to illustrate the system design/data flow*

>

## Description of dataset

*Describe the source of the dataset, and the data structures/data dictionary*

>

## Description of algorithm(s)

*Describe how the selected algorithm(s) or technique(s) is used in your project.*

>

## Proposed test plan/hypothesis

*Design a simple test plan or state the hypothesis that you want to test in the project*

>

# **Result**

## Results

*Demonstrate the results based on the test plan/hypothesis/print screen*

>

## Discussion/Interpretation

*Critically discuss the results and interpret the implications*

>

# **Discussion and Conclusion**

## Achievements

*Discuss what the project has achieved and state whether it has fulfilled the objectives*

>

## Limitations and Future Works

## *Discuss the limitations of the project and what improvements can be done in the future*

>

# **Reference & Source**

## *Provide the sources of the dataset and tool(s) used for development*

## *List the articles or other references you have cited in the text using the APA Referencing system.*

## 