

# OCOM5100M-Programming for Data Science

## Summative Assessment 2 – Marking Scheme

Project Plan				
	Fail	Pass	Merit	Distinction
<b>Description of Data</b>	The dataset and title connection is unclear. The source of the dataset is missing or very vague. Minimal or no description of the dataset. No comments on accuracy, reliability, quality, or usability of data.	The connection between dataset and title is somewhat clear. The source of the dataset is mentioned but lacks detail. Basic description of the dataset is provided. Some comments on accuracy and reliability, and basic discussion on data quality and usability.	Clear connection between dataset and title. The source of the dataset is explained with some detail. Detailed description of the dataset. Good comments on accuracy and reliability. Detailed discussion on data quality, usability, and presentation, including missing values and data types.	Strong and clear connection between dataset and title. The source of the dataset is thoroughly explained. Comprehensive description of the dataset. Insightful comments on accuracy and reliability. Extensive discussion on data quality, usability, and presentation, addressing all relevant aspects comprehensively.
<b>Overview of Aims</b>	Context and motivation are unclear or missing. Objectives are either too few or too vague. Objectives are not appropriately challenging or achievable.	Basic context and motivation are provided. A sufficient number of specific objectives are present, though they may lack clarity. Objectives are somewhat challenging and achievable.	Clear context and motivation are provided. A good number of specific, clear objectives are present. Objectives are appropriately challenging and achievable.	Detailed context and strong motivation are provided. An appropriate number of specific, clear, and well-defined objectives are present. Objectives are both challenging and achievable, demonstrating a high level of ambition.
<b>System Design</b>	Key components are not described or are very vague. The pipeline is not described or lacks coherence. No diagram or poorly structured explanation of architecture.	Key components are described at a basic level. The pipeline is described but may lack detail or clarity. Basic diagram or structured explanation of architecture is provided.	Key components are well described, including purpose and challenges. The pipeline is clearly described, showing how components work together. Good diagram or well-structured explanation of architecture is provided.	Key components are comprehensively described, including detailed purpose and challenges. The pipeline is thoroughly described, with clear and detailed explanation of how components work together. Excellent diagram or highly structured explanation of architecture is provided.
Program Code				
	Fail	Pass	Merit	Distinction
<b>Program Code (Structure and Readability)</b>	Imported packages/modules are not used appropriately. Error handling and exception handling are absent or minimal. Code is poorly organized, with minimal use of functions/classes. Minimal comments within code. Poor naming choices for variables and functions. Written explanations of code cells and outputs are lacking	Imported packages/modules are used appropriately in some instances. Basic error handling and exception handling are present. Code is somewhat organized, with basic use of functions/classes. Some comments within code are present. Acceptable naming choices for variables and functions. Written explanations of code cells and outputs are present but may lack	Imported packages/modules are used appropriately throughout. Good error handling and exception handling are present. Code is well-organized, with good use of functions/classes. Good comments within code. Good naming choices for variables and functions. Detailed written explanations of code cells and outputs are present. Code quality and variety are good.	Imported packages/modules are used excellently. Excellent error handling and exception handling are present. Code is very well-organized, with extensive use of functions/classes, avoiding overly complex and long lines of code. Excellent comments within code. Excellent naming choices for variables and functions. Highly detailed and informative written explanations of code cells and outputs are

	or very unclear. Code quality and variety are poor.	detail. Code quality and variety are acceptable.		present. Code quality and variety are excellent.
<b>Project Outcome, Presentation, and Conclusion</b>				
	<b>Fail</b>	<b>Pass</b>	<b>Merit</b>	<b>Distinction</b>
<b>Explanation of Results</b>	Overview of results is missing or very unclear. Objectives are not discussed. Explanation of visualizations is minimal or unclear. Poor overall quality of communication.	Basic overview of results is provided. Some objectives are discussed but may lack clarity. Basic explanation of visualizations. Acceptable overall quality of communication.	Good overview of results is provided. Most objectives are discussed clearly. Good explanation of visualizations. Good overall quality of communication.	Detailed overview of results is provided. All objectives are discussed thoroughly. Excellent explanation of visualizations. Excellent overall quality of communication.
<b>Visualization of Results</b>	Minimal or no visualizations. Visualizations are not informative or appropriate. Poor labelling and scaling of figures.	Basic visualizations are provided. Visualizations are somewhat informative and appropriate. Acceptable labelling and scaling of figures.	Good variety of informative and appropriate visualizations. Good labelling and scaling of figures.	Excellent variety of highly informative and appropriate visualizations. Excellent labelling and scaling of figures.
<b>Conclusion and Presentation</b>	Achievements and limitations are not discussed. Future work is not mentioned. Report and video presentation are poorly organized.	Basic discussion of achievements and limitations. Future work is mentioned but lacks detail. Report and video presentation are somewhat organized.	Good discussion of achievements and limitations. Future work is discussed in some detail. Report and video presentation are well-organized.	Detailed discussion of achievements and limitations. Future work is discussed comprehensively. Report and video presentation are excellently organized.
<b>Resit Only</b>				
	<b>Fail</b>	<b>Pass</b>	<b>Merit</b>	<b>Distinction</b>
<b>Data Analysis Rationale</b>	Rationale for selecting data analysis method is unclear. Alternative approaches are not considered.	Basic rationale for selecting data analysis method is provided. Some consideration of alternative approaches.	Good rationale for selecting data analysis method is provided. Detailed consideration of alternative approaches.	Comprehensive rationale for selecting data analysis method is provided. Thorough consideration of alternative approaches.
<b>Data Visualization Rationale</b>	Reasons for selecting data visualizations are unclear. Alternative methods are not considered.	Basic reasons for selecting data visualizations are provided. Some consideration of alternative methods.	Good reasons for selecting data visualizations are provided. Detailed consideration of alternative methods.	Comprehensive reasons for selecting data visualizations are provided. Thorough consideration of alternative methods.