Big Data Platforms (MMI227050) CW Marking Rubric

	Exceptional (80 -100%) Demonstrates ***exceptional excellent*** ability, skills and behaviours across specified characteristics.	**Excellent (70-79%)** Demonstrates ***mostly excellent*** ability, skills and behaviours across specified characteristics.	**Very good (65-69%)** Demonstrates ***overall very good*** ability, skills and behaviours across specified characteristics.	**Good (60-64%)** Demonstrates ***overall good*** ability, skills and behaviours across specified characteristics	**Satisfactory (50-59%)** Demonstrates ***overall satisfactory*** ability, skills and behaviours across specified characteristics	**Clear Fail (0 – 39%)** **Marginal Fail (40-49%)** Demonstrates ***overall poor*** ability, skills and behaviours across specified characteristics with ***no/some satisfactory*** elements
A1: Prototype implementation (40 marks)	Demonstrates superior management and transformation of source data, with innovative storage and insightful queries and visualisations.	High-quality implementation, effective data management, and transformations, with robust storage solutions and detailed queries and visualisations.	Competently manages and transforms data, adequate storage, and clear, effective queries and visualisations.	Satisfactory data management, basic transformations, functional storage, queries and visualisations that meet minimum requirements.	Meets basic criteria with room for improvement in data handling, storage, queries and visualisations. At most one area has not been completed.	No or incomplete implementation in more than one area among data management, transformation, storage, query and visualisation.
A2: Notebook Documentation (20 marks)	Comprehensive and articulate documentation within markdown cells, which enhances understanding and reproducibility of the process.	Thorough documentation of the process within markdown cells, with minor areas for enhancement.	Well-organized and clear documentation is provided within markdown cells, though it includes some minor omissions.	Adequate documentation within markdown cells, which covers essential points with room for more depth.	Meets basic documentation requirements, but lacks detail or clarity.	Documentation is missing, incomplete, or fails to clarify implementation aspects.

B1: Conceptual design (20 marks)	An innovative and detailed design for a cloud-based data pipeline, incorporating additional datasets for ingestion, demonstrates a deep understanding and inventive approach to cloud applications.	A well-thought-out and logical design that clearly addresses core requirements, showing a strong understanding of cloud-based solutions and data pipeline integration.	A solid design demonstrating detailed planning and practical viability, including a thorough description of data sources and sound rationale for chosen transformations and analyses.	A functional and coherent design that adheres to the fundamental requirements. It includes descriptions of data sources along with logical explanations for the selected transformations and analyses.	A basic conceptual design that outlines the data sources and provides a basic explanation of the chosen transformations and analysis methods,	The design lacks coherence and relevance, with little/insufficient effort made to incorporate a cloud-based methodology. It offers minimal details on the data sources and processes of transformation and analysis selection.
B2: Platforms (20 marks)	Selections are perfectly justified with exceptional integration of services. The architecture of the pipeline is clearly illustrated. Demonstrates in-depth research and profound understanding.	The platform selections are robust, with each choice thoroughly justified. The pipeline's architecture is detailed clearly in the documentation. There is an indication of extensive research and careful planning.	Good platform selection with reasonable justification. The architecture of the pipeline is illustrated.	Adequate choice of platforms, with basic justification provided. The architecture of the pipeline is illustrated.	Basic platform selection, lacks justification or integration, or without depiction of the pipeline’s architecture.	Inappropriate or poorly justified platform choices. A visual representation of the architecture of the pipeline is missing.