

Group members' name and student ID:

Assignment group number:

BMDS2003 Data Science

CLO1 - Apply appropriate data science concepts, statistics, and machine learning to make predictions on data. (C3, PLO2)

Criterion	Missing or Unacceptable	Poor	Good	Excellent	Marks
Model Selection (CLO1) (25 marks)	No justification for model selection. The approach is irrelevant or lacks evidence. 0-5 marks	Limited or weak justifications for model selection. Choices appear arbitrary or poorly supported. 6-10 marks	Adequate justifications are presented. Choices are generally appropriate with clear reasoning. 11-17 marks	Strong justifications are presented. Model choices are appropriate, well-supported by evidence, and aligned with prediction objectives. 18-25 marks	
				Total	

CLO2 - Practice exploratory data analysis and visualization methods with the aid of appropriate data science tools. (P3, PLO3)

Criterion	Missing or Unacceptable	Poor	Good	Excellent	Marks
Data Preprocessing (CLO2) (10 marks)	The data preprocessing steps are missing or inadequate, with irrelevant or inaccurate information. 0-2 marks	Data preprocessing steps are incomplete and not described clearly. 3-5 marks	Relevant preprocessing steps are explained, offering clear details about the components. 6-7 marks	The preprocessing steps are informative, succinct, and provide detailed insights into the data science components. 8-10 marks	
Descriptive Analytics and Exploratory Data Analytics (CLO2) (15 marks)	Analytical methods and results are not properly explained or aligned with business intelligence concepts. 0-4 marks	Explanations are incomplete, confusing, or lack relevance to data science and business intelligence. 5-8 marks	Explanations are appropriate and related to data science and business intelligence. 9-12 marks	Explanations are clear, structured, and strongly aligned with business intelligence concepts. 13-15 marks	

Graphing and Visualisation (CLO2) (10 marks)	Graphs are missing or irrelevant. 0-2 marks	Limited or unclear visualisations that confuse information. 3-4 marks	Clear graphs and visualisations are presented. 5-7 marks	Comprehensive and informative visualisations, clearly linked to EDA and analytics. 8-10 marks	
				Total	

CLO3 - Analyse relevant techniques, statistical methods, and machine learning algorithms for data analytics. (C4, PLO7)

Criterion	Missing or Unacceptable	Poor	Good	Excellent	Marks
Advanced Analytics and Discussion (CLO3) (30 marks)	Discussions are omitted or very poor. No advanced analytics are presented. 0-7 marks	Limited discussions with unclear or incomplete advanced analytics. Results are not well-analysed. 8-15 marks	Discussions are appropriate. Advanced analytics are presented, and the results are explained. 16-22 marks	The significance of the results is thoroughly discussed. Advanced analytics are comprehensive, with limitations and improvements clearly identified. 23-30 marks	
Report Structure (CLO3) (10 marks)	Report is incomprehensible, irrelevant, or poorly structured. 0-2 marks	Structure is weak and disorganised, making the report difficult to follow. 3-4 marks	Report structure is adequate, with a clear flow and reasonable organisation. 5-7 marks	Report structure is excellent, with smooth transitions, logical flow, and comprehensive organisation aligned with data science concepts. 8-10 marks	
				Total	