Student Registration Number: _____ Subject Code: Data Analytics DTA621 Lecturer's Name: Ruusa Ipinge			
	Grade Descriptors		
Criteria (that meets the module learning outcomes)	Lecture comments	Total	
Problem Statements Column understanding and data types		15	
2. Data cleaning (missing values, duplicates, outliers, NaN) how they are handled		15	
3.Exploratory Data Analytics(visualisation, Pie chart, Bar graphs, interactive visualisation, normal distribution, whiskey Box plot using both seaborn, matplotlib and pyplot)		25	
4. Machine learning (evaluation, different types, Accuracy)		20	
5. Jupiter notebooks codes		10	
6. Report professionalism		10	
7. Git hub account or google colub		5	
8.			

General Comments		
Total Marks	100	
Due Date 31 September 2024 Markers signature		

Mark	
Penalty for Late Submission	
FINAL MARK	

Student Names	Student Number

Background

Search for datasets in any field and use the above marking grid as a guide to carry out this report. Conduct the project in groups of 6 and compile a report explaining your work, with screen shorts from your Jupiter notebook. Follow the data science process as you compile this report. The topics on how marks will be assigned are further explained below

1. **The problem statement:** i.e., the problem explaining the purpose of collecting this data, what problem it is intended to solve, in short, why you are using this data and what problem you are trying to solve. Explain all culumns as well as their data types
2. **Data Cleaning:** Explain the different methods of data cleaning, talk about duplicate values, missing null values and inconsistent data or other methods like data transformation etc.
3. **Exploratory data analysis:** create plots to answer some questions. You can use both matplotlib, seaborn and portly express
4. **Machine Learning:** Develop a machine learning using at least two algorithms. Explain evaluations or scores
5. **Jupiter Notebook:** a Jupiter notebook with comments on who worked on which parts. The Jupiter should include all codes
6. **Presentation of Results:** Present your project in reports, follow mark allocation template. Randomly and individually poll team members to assess their understanding.
7. Git hub or google Collab. **Extra marks for the usage of this tools**

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