

1b. Data Understanding

Instructions:

Please share your answers filled in-line in the word document. Submit code separately wherever applicable.

Please ensure you update all the details:

Name: ULLI VENKATA SAI KUMAR **Batch ID:** 04072024HYD10AM

Topic: Data Understanding

Guidelines:

1. An assignment submission is considered complete only when the correct and executable code(s) is submitted along with the documentation explaining the method and results. Failing to submit either of those will be considered an invalid submission and will not be considered a correct submission.
2. Ensure that you submit your assignments correctly. Resubmission is not allowed.
3. Post the submission you can evaluate your work by referring to the keys provided. (will be available only post the submission).

Problem Statements:

1. Identify the data type (continuous/discrete) for the following:

Activity	Data Type
Number of sheep counted while trying to sleep	Discrete
Results of rolling a single dice	Discrete
Weight of a person	Continuous
Weight of Gold	Continuous
Distance between two places	Continuous
Length of a leaf	Continuous
Dog's weight	Continuous
Colors	Categorical (not continuous or discrete)
Number of kids	Discrete
Number of tickets in Indian railways	Discrete
Number of times married	Discrete
Gender (Male or Female)	Categorical (not continuous or discrete)
Voltage	Continuous
Speed of the car	Continuous
Distance between planets	Continuous

The size of two a bedroom flat	Continuous
Wind speed	Continuous
Facebook likes	Discrete
Votes in election	Discrete
Makeup kits purchased	Discrete
Death toll in flood disaster	Discrete
The waiting time of customers in the bank	Continuous
Price of the iPhone in the market	Continuous
Stolen Cars	Discrete

2. Identify the data types (Nominal, Ordinal, Interval, and Ratio)

Data	Data Type
Gender	Nominal
High School Class Ranking	Ordinal
Celsius Temperature	Interval
Weight	Ratio
Hair Color	Nominal
Socioeconomic Status	Ordinal
Fahrenheit Temperature	Interval
Height	Ratio
Type of living accommodation	Nominal
Level of Agreement	Ordinal
IQ (Intelligence Scale)	Interval
Sales Figures	Ratio
Blood Group	Nominal
Time of Day	Interval
Time on a Clock with Hands	Interval
Number of Children	Ratio
Religious Preference	Nominal
Barometer Pressure	Ratio
SAT Scores	Interval
Years of Education	Ratio
Size of egg	Ordinal
Monthly Income	Ratio
Unemployment rate	Ratio
Military Rank	Ordinal
Shoe size	Ordinal

Pulse rate	Ratio
Vital capacity	Ratio
Favorite candy bar	Nominal
Name of the Grains	Nominal
Pesticides level	Ratio
Tribe of origin	Nominal
Help Desk Service Satisfaction Score	Ordinal
Ethnicity	Nominal
Marital status	Nominal
Type of Residence	Nominal
Swimming level	Ordinal
Amount of Money	Ratio
Colors of paint	Nominal
Weekly Food spending	Ratio

3. Identify whether the data is qualitative or quantitative:

Data	Data Type (Qualitative/Quantitative)
I bought Strawberry lipstick today	Qualitative
Happiness rating	Quantitative
Duration of red-light signal	Quantitative
I like butterscotch ice cream	Qualitative
Setosa belongs to the Iris family of flowers	Qualitative
Cold coffee	Qualitative
The Tea smells good	Qualitative
Dress Size	Quantitative

4. Identify whether the data is categorical or numerical for the following:

Data	Data Type (Categorical / Numerical)
Product Type	Categorical
Native language	Categorical
Type of teaching approach	Categorical

Virus in a System	Categorical
Covid-19 Positive Cases	Numerical
Lockdown Days	Numerical

5. Identify whether the data is structured or unstructured for the following:

Data	Data Type (Structured/Unstructured)
Credit card numbers	Structured
Transaction information	Structured
Text files	Unstructured
Images	Unstructured
Music files	Unstructured
Credit card numbers	Structured