

Worksheet

1

Name:

Roll No: Class: Section:

Date:

CAPSTONE PROJECT

Unit-1

A. Tick the correct answer

1. Conducting interviews, research is done in stage of design thinking.
 - a) Ideate
 - b) Define
 - c) Empathise
 - d) Prototype
2. Once the business problem is clearly stated, the data scientist can define the approach to solving the problem.
 - a) analytical
 - b) creative
 - c) statistical
 - d) Either b) or c)
3. All of the tasks necessary to create the dataset for the next stage of modelling are included in this stage. Activities to prepare data include data preparation, combining data from several sources, and transforming data into more practical variables. Identify this stage:
 - a) Data Collection
 - b) Data Understanding
 - c) Data Preparation
 - d) Evaluation
4. If the objective is to determine the probability of action, then can be used.
 - a) analytic approach
 - b) predictive modelling
 - c) descriptive approach
 - d) data collection
5. The method CANNOT be used in cases where small data sets necessitate multiple setups, and when the data set is unbalanced.
 - a) train test split
 - b) Data Collection
 - c) cross validation
 - d) Either b) or c)

B Fill in the blanks.

The RMSE of a good model should be less than The lower the RMSE value, the the model's performance.

C. Answer the following questions.

1. List 2 points of difference between train test split and cross validation techniques.
2. "If our model makes a single particularly incorrect forecast, the squaring part of the function multiplies the error." Identify this loss function and list any 2 features of this loss function.
3. List any 2 examples of Hyperparameters.
- 4.. Define the following:
 - a) Capstone Project
 - b) Loss Function