Worksheet 2

Name: ....

Roll No: .... Class: .... Section: ....

Date: ....

CAPSTONE PROJECT

Unit-1

Class -12   Part B

A.   Answer the following questions.

Questions 1 and 2 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

A. Both A and R are true and R is the correct explanation of A

B. Both A and R are true and R is not the correct explanation of A

C. A is true but R is false

D. A is False but R is true

1. Assertion (A): If there is no pattern, artificial intelligence (AI) cannot resolve the issue.

Reason (R): AI works with data and helps to predict future outcomes.

2. Assertion (A): After the problem to be solved has been identified, the best analytical strategy is chosen in light of the business needs.

Reason (R): Selecting the right analytic approach depends on the question being asked.

3. Define:
 a) Residual   b)   hyperparameters

4. Explain the relationship between MSE and RMSE if any.

5. Explain problem decomposition with the help of an example.

6. Which is the hardest stage in development of an AI project? Why is it the hardest?

7. "Using cross-validation gave us much better measures of model quality, with the added benefit of cleaning up our code" Why? Comment.

8. Name 2 classification and 2 regression loss functions.

9. Write the train test split statement in Python to create a 60-40 split.

B.   Fill in the blanks.

1. Data Modelling concentrates on developing models that are either .... or ....

2. The .... procedure involves taking a dataset and dividing it into two subsets.

3. Building representation of your idea(s) is the .... step in design thinking.

Grade: ★ ★ ★ ★ ★

Teacher's Signature: ....