Worksheet
2

MODEL LIFE CYCLE

Unit-2

A. Answer the following questions.

1. Can multiple models be tested for the same AI project during the modelling stage? Explain.

2. List 2 AI open source frameworks which help in the AI model development process.

3. "Scoping a problem is difficult because we need to have a deeper understanding of it so that the image gets clearer as we attempt to solve it." Comment.

4. Differentiate between underfitting and overfitting.

5. Define the following terms:
   a) Modelling
   b) Problem Scoping
   c) Deployment

6. Name the various stages of the AI Model Life Cycle in order.

7. "Build some straightforward visualisations of your data if you can (or a sample of it). Binned histograms, for example, can show you how your data is distributed. Scatter plots of pairs of variables can be used to explore correlations in supervised learning. You can then use this to find the factors that might be most indicative of your goal."

8. Identify this stage.

B. Fill in the blanks.

1. Human biases in selecting test data can adversely impact the .... phase.

2. Hyperparameter fine-tuning provided by most ML frameworks helps to narrow down the number of ....

Class -12   Part B

Grade: ★ ★ ★ ★ ★

Teacher's Signature: ....