

# DATA SCIENCE ASSIGNMENT

## Day - 51:

1. Which of the following statements best describes the purpose of using a train-test split in model validation?
2. What is the primary advantage of k-fold cross-validation over a simple train-test split for model evaluation?
3. In bootstrap resampling for model validation, what does each bootstrap sample represent?
4. Explain the impact of the number of Monte Carlo iterations on the stability of the results.
5. Can Monte Carlo Cross-Validation be applied to regression tasks, and if so, how?