

# DATA SCIENCE ASSIGNMENT

## Day - 52:

- 1. Which of the following statements best describes the concept of bagging in ensemble learning?**
- 2. What is the primary advantage of using a random forest over a single decision tree for classification or regression tasks?**
- 3. In the context of boosting algorithms like AdaBoost or Gradient Boosting Machines (GBM), what is the role of weak learners?**
- 4. How does Random Forest handle overfitting, and what parameters can be tuned to control model complexity?**
- 5. Explain the role of the `n_estimators` parameter in Bagging and Random forest.**