

# DATA SCIENCE ASSIGNMENT

**Day - 55:**

- 1. What distinguishes XG Boost from Light GBM in terms of tree growth strategy?**
- 2. How does the leaf-wise tree growth strategy of Light GBM contribute to its performance compared to XG Boost's depth-wise strategy?**
- 3. What is the primary purpose of the learning rate in gradient boosting algorithms like XG Boost and Light GBM?**
- 4. Explain the concept of early stopping in Gradient Boosting. How is it useful, and what criteria can be used for early stopping?**
- 5. What are some real-life applications of Artificial Intelligence?**