SESSION PLAN 22	
Session Name	Gradient Boosting Machines

Learning Outcomes

- Understand the intuition behind boosting methods
- Work with different types of boosting methods

Prerequisites for the Student

- Gradient Boosting Machines - Go through the concept and solve the tasks and assessments.

Student Activities

- Discuss with the Mentor what you have learned.
- Overview of Gradient Boosting Machines
    - Adaboost
    - Gradient Boosting
    - XGBoost
- Gradient Boosting from Scratch:- https://medium.com/mlreview/gradient-boosting-from-scratch-1e317ae4587d
- Adaboost for dummies: https://towardsdatascience.com/adaboost-for-dummies-breaking-down-the-math-and-its-equations-into-simple-terms-87f439757dcf
- How boosting is different from other ensemble methods?
- How is the Gradient Boosting Algorithm Works?
- Practice problem on Gradient Boosting Machines
    - Refer the GitHub repo for problems
- Quiz on Gradient Boosting Machines.
- Code Along.
- Questions and Discussion on doubts - AMA

Next Session

- Concept - Machine Learning: Clustering/ k-means(30 min)
- Key topics to be highlighted - highlight where they would need to spend more time and importance w.r.t Data Science.
    - Unsupervised learning methods
    - Working of Clustering methods
    - K-Means and Hierarchical clustering