SESSION PLAN		
Session Name Mach		nine learning: Logistic Regression
Learning (Outcomes(10 min)	
KnBu	derstand when to use Logistic Regression ow the concepts of odds, odds ratio and sigmoild a linear regression model using sklearn derstand the different evaluation metrics for classical designs.	
Prerequisites for the Mentor • Machine learning: Logistic Regression		Prerequisites for the Student • Machine learning: Logistic Regression
Timing	Instructor Activities	
160 min	 Ask learners what they have learned from the concept? (10 min) Medium blog on Logistic Regression:(10 min) https://medium.com/data-science-group-iitr/logistic-regression-simplified-9b4efe801389 Why linear regression is not good for classification? (10 min) Overview of Machine learning: Logistic Regression(60 min) Sigmoid Cost Function Evaluation Metrics Practice problem on Machine learning: Logistic Regression Refer the GitHub repo for problems (30 min) Quiz on Machine learning: Logistic Regression. (10 min) Questions and Discussion on doubts - AMA (30 min)	

Context setting for code along (objectives and key takeaways) (5 min)

- Applying skills to solve a problem
 - Quiz learners on how to solve the problem posed given the concept that they have already learned. Let them come up with the approach.
 - Which data structure is best suited to capture data and calculate the result? Pose to the learner these questions.
- Adapting to something new
 - Bring attention to the learner about different formats of storing data and how to quickly search and implement how to read files stored in an unknown format to the learner.
 - How to look for help in documentation and quickly solve problems.
- Problem-solving workflow
 - Refer to Polya's How to Solve it the broad principles of problem-solving.
 - Highlight how a hard problem can be broken down into smaller problems and the solution of the smaller problems build up as a solution to the larger problem

Code Along (120 minutes)

- Dataset overview IPL dataset, rules of cricket
- High-level objective what will be the outcome
- Explain the problem statement
- Engage the learner while solving the problem
 - While solving the problem pause, and question the learners if there are alternate ways of solving the problem.
 - While writing out the code, ask how to figure out in which data structure format is the data stored use type()
 - Ask them which part of the data needs to be accessed to answer the questions posed in the code along.
- In case you fumble/are unable to get to the right answer refer to the provided solution. Tell learners that it is ok to get stuck and how to look for help on StackOverflow, google
 - Purposefully make mistakes and ask the learners to point out the error and debug for you. Let them point out and build the basic idea for the solution.
 - Ask focused questions to gauge if learners are understanding
 - Set the expectation that errors are important of the learning process and emphasis on the importance of debugging.
 - Note questions parked if any. Resolve or answer later in slack or in the coming session

Next Session

- Concept Improving your model with Feature Selection(30 min)
- Key topics to be highlighted highlight where they would need to spend more time and importance w.r.t Data Science.
 - o Feature Selection Importance
 - o Different types of Feature Selection Methods
 - o PCA