

Session Plan

Model Performance Measures, ML Pipeline and Hyper Parameter Tuning

Learning Objective

- To have a collaborative and interactive flipped classroom session to establish an understanding of the topics of the week through doubts clarification and hands on exercise.

Agenda of the session:

- Gauging learners' understanding on the topics of the week.
- Understanding the concepts clarity of the learners on:
 - Pipeline Concept, model tuning and performance
 - Hyper Parameters and tuning
 - Grid Search CV and Randomized Search CV
- Clarifying doubts.
- Case study hands on.
- Extended Doubts clearing, industry perspective and practices.
- Summary of the session's learning.

Structure of the Session:

<u>Duration</u>	<u>Topic</u>	<u>Details</u>
10 min	<ul style="list-style-type: none"> Gauge learner's understanding 	<ul style="list-style-type: none"> Ask the learners in the group about the understanding of the week's topics. Identify the important concepts majority of the group is facing doubts on.
20 min	<ul style="list-style-type: none"> Concepts clarity 	<ul style="list-style-type: none"> Clarify the concepts on the doubts raised/identified.
60 min	<ul style="list-style-type: none"> Case Study Hands on - Airline Customer satisfaction Data 	<ul style="list-style-type: none"> Use the case study provided to have a hands on session to demonstrate topics covered in the week. Explain the problem statement, attributes and the steps to follow. Dataset used: Airline Customer satisfaction Data
25 min	<ul style="list-style-type: none"> Extended Doubts Clearing and Industry perspective discussion 	<ul style="list-style-type: none"> Use this time to clarify additional doubts. Also, explain the industry practices as per your experience.
5 min	<ul style="list-style-type: none"> Summarize the session 	<ul style="list-style-type: none"> Provide a summary of the session