

Session Plan

Exploratory Data Analysis

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:
 - Exploratory data analysis, univariate analysis, bivariate analysis
 - Missing value treatment, normalization and scaling the data at hand.
 - Visualizations required for EDA, data distributions and associations between attributes
- Clarifying doubts and case study.
- 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 	<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.
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