Session Plan

**Hypothesis Testing**

**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:
  + Hypothesis testing, sampling distribution, central limit theorem, hypothesis testing
  + Z-test and t-tests. Chi square, ANoVa.
* Clarifying doubts.
* Case study hands on.
* Extended Doubts clearing, industry perspective and practices.
* Summary of the session’s learning.

**Structure of the Session:**

|  |  |  |
| --- | --- | --- |
| **Duration** | **Topic** | **Details** |
| 10 min | * **Gauge learner’s understanding** | * 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 | * Concepts clarity | * Clarify the concepts on the doubts raised/identified. |
| 60 min | * **Case Studies** Hands on – Central Limit Theorem, hypothesis testing. | * 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: insurance, wine,titanic,boston dataset |
| 25 min | * **Extended Doubts Clearing** and **Industry perspective** discussion | * Use this time to clarify additional doubts. * Also, explain the industry practices as per your experience. |
| 5 min | * Summarize the session | * Provide a summary of the session |