

Week 2 : Inferential Statistics

Learning Objectives of the session:

* Understanding probability concepts
* Understanding different types of probability distributions
* Hands on case study - Python

Structure of the Session

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| **Time**  **Distribution of 2 hours ( 120min)** | **Topic** | **Detail** |
| First 20 Min | * Agenda | * Set the ground rules/agenda for the sessions * **Use the pop up Quiz to gauge** level of understanding of the learners on videos covered during the week. |
| 85 min | * Case Study based Hands-On Problem Solving   **Objective –** Session should not seem to be a repetition of the videos | * Introduce them to by explaining the “Practice Question on Job satisfaction ” problem statement. * Explain the concepts of probability and distributions while demonstrating the hands-on example. * Engage them by asking them to run few commands of python * Summarise the key learnings from the case study. |
| 10 min | * Industry perspective | * Talk about the industry importance of infrential statistics measures and its applications. * Share from your experience and from other examples given in the slide how these concepts are used in real life scenarios. * **Reduce the anxiety /Fear by sharing positive examples and comforting them that they will be able achieve learning outcomes from the course** |
| 10 min | * Doubt Clearing and Summarising the session | * Clarify the doubts from week 2 if any * Summarise the week by stating the key takeaways * Brief them about next week on hypothesis testing |