

## Theoretical Session on Inferential Statistics and Hypothesis Testing

By this session, you would have gone through modules related to Python and SQL, and briefly touched upon descriptive statistics in EDA. Currently, you will be learning the fundamental concepts of inferential statistics and, later, they will learn about hypothesis testing.

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### Learning Objective(s)

You will learn about the concepts of inferential statistics which is a fundamental topic required to advance in the field of data science. Since it poses a lot of difficulties even for people from a technical background, this session will focus on teaching the learners a few important concepts along with rigorous doubt resolution.

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### Prerequisite(s)

There are no prerequisites for this session from the previous modules. It would be better if the learner has completed the first two sessions on Inferential Statistics.

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### Brief Agenda

1. Part - I: Focused Teaching (Inferential Statistics) (60 min)
2. Part - II: Doubt Resolution (30 min)

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### Additional Reading for the Week

1. Link 1  
[Basic Probability Theory and Statistics / by Parag Radke](#) (for the basics of probability)
2. Link 2  
[Techniques for generating a simple random sample \(video\)](#) (for sampling techniques)