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## Course Content

# Session Plan - Feature Engineering and cross validation

### Learning Objectives:

- Understand the basic concepts of overfitting, underfitting, and missing value imputation
- Learn how to perform regularization, Over and Under-Sampling
- Understand where and how this technique is used in the industry

### Structure of the Session

Duration	Topic	Details
5 Min	Explaining the session structure	Check if all the participants have watched the videos of the week Explanation of the agenda and learning objectives of the session
25 min	Discussion of videos of the week	Use the Discussion Questions to gauge the level of understanding of the learners on videos covered during the week and identify areas to focus on.
60 min	Hands-on Case study	Perform the techniques on the provided dataset to demonstrate topics covered in the week. Understand the problem statement, attributes, and the steps to follow.
25 min	Share industry experience	Use this time to clarify additional doubts. Share stories around different methods of handling data from your experience
5 min	Summarize the session	In simple bullet points, cover the contents covered during the session

### Important points to note:

- Log in for your session 5 min before and make sure you are ready with all the material to be used for the session.
- Be well prepared for the session, ensure to watch all the videos, related codes, and datasets. (It renders the Mentored Learning session of no use if we are not completely prepared)
- Make sure to work on the practice case study before the session.

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