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## Course Content

# Session Plan - ML Pipeline and Hyperparameter Tuning

## Learning Objectives:

- Understand the basic concepts of Hyperparameter tuning and pipelines
- Learn how to use RandomisedCV
- Understand how pipeline with column transformer can help standardize the model building process
- Understand where and how this technique is used in the industry

## Structure of the Session

Dur atio n	Topic	Details
5 Min	Explaining the session structure	<ul style="list-style-type: none"><li>• Check if all the participants have watched the videos of the week</li><li>• Explanation of the agenda and learning objectives of the session</li></ul>
25 min	Discussion of videos of the week	<ul style="list-style-type: none"><li>• 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.</li></ul>
15 min	Discuss Column transformer	<ul style="list-style-type: none"><li>• Use the slides to make learners understand the need for column transformers and how they help in the model building process</li></ul>
45 min	Hands-on Case study	<ul style="list-style-type: none"><li>• Perform the techniques on the provided dataset to demonstrate topics covered in the week. Understand the problem statement, attributes, and the steps to follow.</li></ul>

25 min	Extended Question	<ul style="list-style-type: none"><li>• Use this time to clarify additional doubts.</li><li>• Share stories around Hyperparameter tuning from your experience</li></ul>
5 min	Summarize the session	<ul style="list-style-type: none"><li>• In simple bullet points, cover the contents covered during the session</li></ul>

**Important points to note:**

- We have observed in previous sessions that GridSearchCV can take a long time to run. Please avoid running the code for hyperparameter tuning during the session. You can use the pre-run notebook.
- 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.
- Log in for your session 5 min before and make sure you are ready with all the material to be used for the session.

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