

Session Plan

Feature Engineering

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:
 - · Introduction to Feature engineering
 - Model tuning and Performance
 - Up sampling and down sampling
- Clarifying doubts.
- Case study hands on.
- Extended Doubts clearing, industry perspective and practices.
- Summary of the session's learning.

Structure of the Session:

| <u>Duration</u> | <u>Topic</u> | <u>Details</u> |
|-----------------|--|---|
| 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 Study Hands on - credit dataset | 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: credit data set |
| 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 |