Great Learning

← Go Back to Model Tuning

☰ Course Content

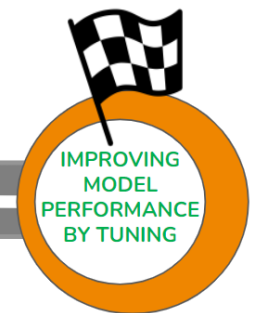# Overview - Feature Engineering and Cross Validation

Week 1: FEATURE ENGINEERING AND CROSS VALIDATION

Understand the feature engineering and cross validation.Learn about methods to handle imbalance data and regularization methods.

Week 2: ML PIPELINE AND HYPERPARAMETER TUNING

Understanding the pipeline concepts.Learn about model tuning and two types of hyperparameter tuning Gridsearch and Random Search.

IMPROVING MODEL PERFORMANCE BY TUNING

WEEK 1 OVERVIEW

When dealing with any classification problem, there will be situations where you need to deal with imbalanced data set when the value of finding the minority class is much higher than that of finding the majority. To check models' performance using cross-validation which helps us better use our data, and gives us much more information about our algorithm performance.

The following topics will be covered in this module:

- Introduction to Feature Engineering
- Introduction to k-fold cross-validation
- Oversampling and undersampling
- Regularization Models

LEARNING INSTRUMENTS

Week	Module	No. of videos	Total duration	No. of Test Your Understanding Quizzes	No. of Weekly Graded Quizzes	No. of Practice Assignments
1	Feature Engineering and Cross-Validation	8	~2 hour	8	1	1

Note: You will be required to spend approximately 1 hour/day along with practicing datasets and quizzes.

Power Ahead!

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