

Content

Course Overview

Week 1: Bagging and Random Forest

Week 1: Additional Case Study

Week 1: Reference Material

MLS 1: Bagging and Random Forest

Week 2: Boosting

Overview - Boosting

Important Note

Week 2 - Lecture Video Materials

2.1 Introduction to Boosting

2.1 Test your understanding

2.2 Bagging VS Boosting

2.2 Test your understanding

2.3 AdaBoost

2.3 Test your understanding

2.4 Gradient Boosting

2.4 Test your understanding

2.5 XGBoost Overview

2.5 Test your understanding

2.6 Hands-On Boosting

2.6 Test your understanding

2.7 Stacking

2.7 Test Your Understanding

Lecture Slides - Boosting

Lecture Notes - Boosting

FAQ - Boosting

Weekly Quiz - Boosting

Week 2: Additional Case Study

Week 2: Reference Material

MLS 2: Boosting

Week 2: Additional Learning Material

Hands-On Quiz

Project 5: Ensemble Techniques: EasyVisa

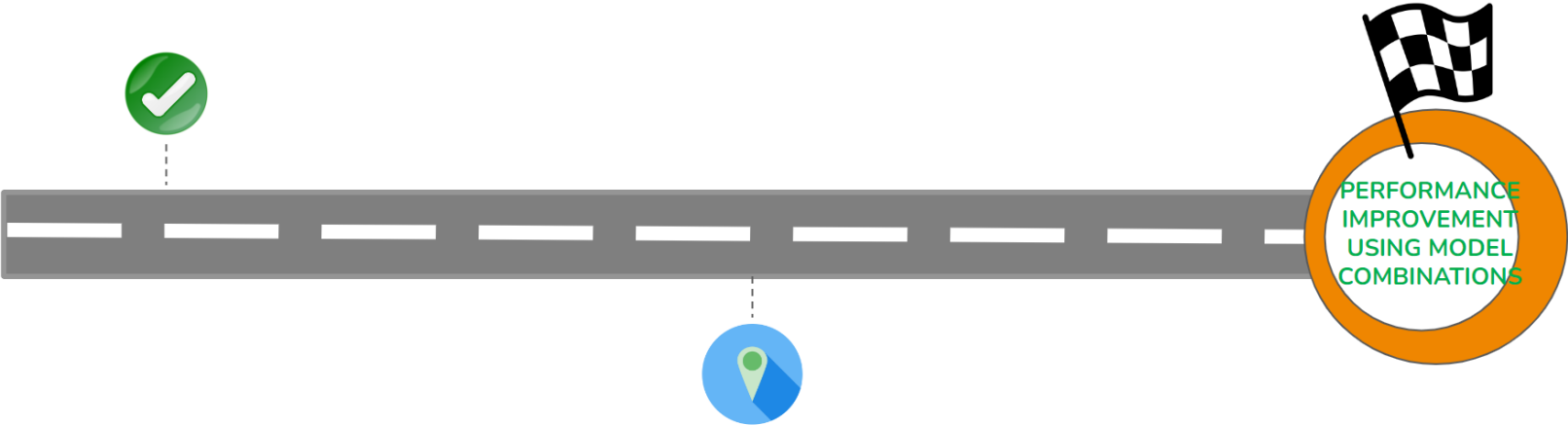
All Notes

Overview - Boosting

The Journey Ahead

Week 1: BAGGING AND RANDOM FOREST

Understand the fundamentals of ensemble models and learn about the process of bagging and Random Forest model



Week 2: BOOSTING

Understand the difference between bagging and boosting and learn about the different boosting algorithms

QUICK RECAP

In the previous week, we learned about the foundations of Bagging and Random Forest. Let us quickly recap what we have covered so far.

- Introduction to Ensemble techniques
- Introduction to Bagging
- Sampling with replacement
- Introduction to Random Forest

COURSE OVERVIEW

Week	Module	Name of the Topic
1	Bagging and Random Forest	Introduction to Ensemble techniques Introduction to Bagging Sampling with replacement Introduction to Random Forest
2	Boosting	Introduction to Boosting Boosting algorithms like Adaboost, Gradient boost, and XGBoost Stacking

WEEK 2 OVERVIEW

This week, we will be learning about the difference between bagging and boosting and the various boosting algorithms. The following topics will be covered in this module:

- Introduction to Boosting
- Boosting algorithms like:
 - Adaboost
 - Gradient boost
 - XGBoost
- Stacking

LEARNING INSTRUMENTS

Week	Module	No. of videos	Total duration	No. of Test Your Understanding Quizzes	No. of Weekly Graded Quizzes	No. of Practice Assignments
2	Boosting	7	~1.5 hours	7	1	1

Note: It is recommended to spend at least 1 hour/day along with practicing datasets and quizzes.

Power Ahead!

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