



Week 2

Week 3

Grades

Discussion Forums

Messages

Course Info

Week 1

Introduction to Machine Learning in Production

Week 1

Discuss the topic here.

29 threads · Last post 13 hours ago

Week 1: Overview of the ML Lifecycle and Deployment



This week covers a quick introduction to machine learning production systems focusing on their requirements and challenges. Next, the week focuses on deploying production systems and what is needed to do so robustly while facing constantly changing data.

Learning Objectives

- Identify the key components of the ML Lifecycle.
 Define "concept drift" as it relates to ML projects.
- Differentiate between shadow, canary, and blue-green deployment scenarios in the context of varying degrees of automation
 Compare and contrast the ML modeling iterative cycle with the cycle for deployment of ML products.
- List the typical metrics you might track to monitor concept drift.

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▶ Video: Specialization overview 6 min

Go to forum

The Machine Learning Project Lifecycle

- ▶ Video: Welcome 9 min
- ▶ Video: Steps of an ML Project 3 min
- **▶ Video:** Case study: speech recognition 12 min
- ▶ Video: Course outline 2 min
- Reading: Have questions? Meet us on Discourse! 2 min

Deployment

- ▶ Video: Key challenges 14 min
- Quiz: The Machine Learning Project Lifecycle 5 questions Due Dec 20, 1:59 AM CST
- ▶ Video: Deployment patterns 11 min
- ▶ Video: Monitoring 10 min
- **▶ Video:** Pipeline monitoring 9 min
- © Reading: Week 1 Optional References 3 min

Lecture Notes (Optional)

Ungraded External Tool: Lecture Notes W1 5 min

Graded assessment

Quiz: Deployment 5 questions Due Dec 20, 1:59 AM CST

Ungraded Lab

Reading: Ungraded Lab - Deploying a Deep Learning model 1h 30m