



Week 4

Deploying Machine Learning Models in Production

Overview

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Grades

Notes

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Messages

Course Info

Week 4

Discuss the topic here.

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3 threads · Last post 2 months ago

Week 4: Model Monitoring and Logging



Establish procedures to detect model decay and prevent reduced accuracy in a continuously operating production system

Learning Objectives

- Manage, monitor and audit your projects during their entire lifecycle
- Establish procedures to detect model decay and prevent reduced accuracy
- Implement modern practices to trace your ML system including monitoring and logging
- Integrate mechanisms to your production systems to ensure that they comply with modern responsible AI practices and legal regulations
- Determine when is appropriate and how to apply techniques to protect users privacy and respect their right to be forgotten

Show Less



Model Monitoring and Logging

Video: Why Monitoring Matters 6 min

Resume

Video: Observability in ML 4 min

Video: Monitoring Targets in ML 4 min

Video: Logging for ML Monitoring 7 min

Video: Tracing for ML Systems 3 min

Reading: Monitoring Machine Learning Models in Production 10 min

Practice Quiz: Model Monitoring and Logging 4 questions

Graded External Tool: Data Loss Prevention: Qwik Start - JSON 2h Due Jan 17, 2:59 AM EST

Model Decay

Video: What is Model Decay? 3 min

Video: Model Decay Detection 2 min

Video: Ways to Mitigate Model Decay 5 min

Reading: Addressing Model Decay 10 min

Practice Quiz: Model Decay 4 questions

GDPR and Privacy

Video: Responsible AI 5 min

Reading: Responsible AI 10 min

Video: Legal Requirements for Secure and Private AI 9 min


Reading: GDPR and CCPA 10 min

Video: Anonymization and Pseudonymisation 4 min


Video: Right to be Forgotten 8 min

Practice Quiz: GDPR and Privacy 4 questions


Lecture Notes (Optional)

 **Ungraded External Tool:** Lecture Notes W4 5 min


Specialization recap and farewell

 **Video:** Specialization recap and farewell 1 min

Course Resources

 **Reading:** Course 4 Optional References 10 min

Acknowledgments

 **Reading:** Acknowledgements 10 min

 **Reading:** Join our DeepLearning.AI Community! 10 min