

Week 1

Week 2

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Course Info

Week 2

Machine Learning Modeling Pipelines in Production

Week 2 Discuss the topic here. Go to forum 4 threads · Last post 3 months ago

Week 2: Model Resource Management Techniques



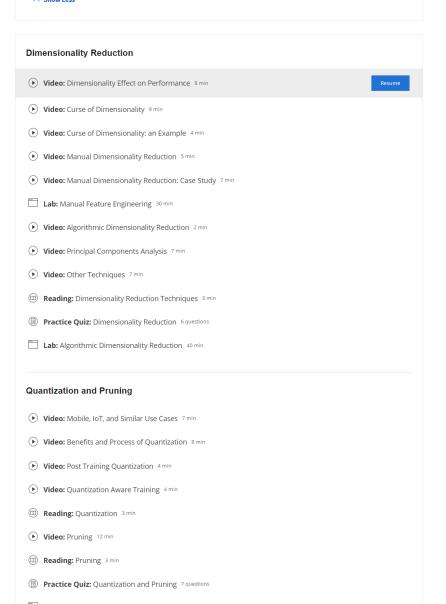
Learn how to optimize and manage the compute, storage, and I/O resources your model needs in production environments during its

Learning Objectives

- Identify how data dimensionality affects model performance

- Illustrate the curse of dimensionality and how it relates to model performance
 Use manual dimensionality reduction to mitigate performance bottlenecks
 Determine the applicability of algorithmic dimensionality reduction techniques to improve model performance and reduce overall
- Use Principal Component Analysis to identify and remove redundant dimensions in high-dimensional data sets
- Integrate model resource management techniques to optimize resources and perfo
- $\bullet \ \ \text{Differentiate the uses of quantization and pruning to optimize model resources and requirements without affecting efficiency and the property of the$ accuracy

∧ Show Less





☐ Lab: Quantization and Pruning 1h		
Lecture Notes (Optional)		
② Ungraded External Tool: Lecture N	otes W2 5 min	