

Week	Date	Lecture	Theme	Topic	Milestone
1	12/9/2023	1	Introduction, Virtual Machines and Virtual Environments	Introduction	
2	12/16/2023	2		Virtual Machines and Virtual Environments	
3	12/23/2023	3	Containers	Containers I	
4	12/30/2023	4		Containers II	
5	1/6/2024	5	Data	Data Pipelines, Extract, Transform, Versioning, Cloud Storage	
6	1/13/2024	6		Dask	
7	1/20/2024	7		TF Data and TF Records	
8	1/27/2024	8	Model	Advanced training workflows: experiment tracking (W&B), multi GPU, serverless training (Vertex AI)	
9	2/3/2024	9		Distillation/Quantization/Compression	
10	2/10/2024	10		Model performance monitoring, data drift, or other post release items	
11	2/17/2024	11	ML Workflow Management		
12	2/24/2024	12		Cloud Functions, Cloud Run, Model Deployment, Kubeflow, Vertex AI Pipelines	
13	3/2/2024	13	App Development	App design, setup and code organization	
14	3/9/2024	14		APIs & Frontend	
15	3/16/2024	15	Operations	Deployment: Ansible	
16	3/23/2024	16		Scaling: Kubernetes	
17	3/30/2024	17	App Development	Frontend - React	
18	4/6/2024	18	Operations	Automation: GitHub Actions	