

Week	Date	Lecture	Theme	Topic	Milestone	Assignment
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	M1	
5	1/6/2024	5	Data	Data Pipelines, Extract, Transform, Versioning, Labeling, Cloud Storage		A1
6	1/13/2024	6		Dask		
7	1/27/2024	7		TF Data and TF Records	M2	
8	2/3/2024	8	Model Building	Distillation/Quantization/Compression		
9	2/10/2024	9		Advanced training workflows: experiment tracking (W&B), multi GPU, serverless training (Vertex AI)		
10	2/17/2024	10	Model Inference	Model Deployment/Host/API, Model performance monitoring, data drift, or other post release items	M3	
11	2/24/2024	11	ML Workflow Management	Testing, Cloud Functions, Cloud Run, Kubeflow, Vertex AI Pipelines		
12	3/2/2024	12			M4	
13	3/9/2024	13	App Development 1	App design, setup and code organization		
14	3/16/2024	-	Project Week			
15	3/23/2024	-	Project Week			
16	3/30/2024	-	Mid Term			
17	4/6/2024	14	App Development	APIs & Frontend		
18	4/13/2024	15	Operations	Frontend - React		A2
19	4/20/2024	16		Deployment: Ansible		
20	4/27/2024	17	App Development	Scaling: Kubernetes	M5	A3
21	5/4/2024	18	Operations	Automation: GitHub Actions		A4
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