			AC215 FALL 2024 SCHEDULE	
Week	Date S	ession	Lecture	Milestones/HW due dates
1	9/3	1	Introduction	
	9/5	2	LLM tools and agents 1: LangChain, LlamaIndex, API calls, RAG, AI agents	
2	9/10	3	LLM tools and agents 2: LangChain, LlamaIndex, API calls, RAG, AI agents	
	9/12	4	Virtual Enviroments and Virtual Machines	
3	9/17	5	Containers I	
Ů	9/19	6	Containers II	M1 - 09/20
4	9/24	7	Data Pipelines/ Data Management: Extract, Transform, Load (ETL) and Data Version	
7	9/26	8	TF Data, TF Records, PyTorch Dataset, DataLoader, Cloud Storage	HW1 - 09/27
-	10/1	9	Large Data for Computer Vision and LLMs	
5	10/3	10	Advanced training workflows: experiment tracking (W&B), multi GPU, serverless training (Vertex AI), LLM fine tuning	
	10/8			
6	10/10		PROJECT WEEK	
7	10/15	11	Model Optimization: Distillation, Quantization, Compression, and LORA	
,	10/17	12	Model Deployment: Hosting, APIs, and Serving LLMs	M2 - 10/18
8	10/22	13	Model performance monitoring, data drift, or other post release items	
0	10/24	14	Testing, Cloud Functions, Cloud Run, Kubeflow, Vertex Al Pipelines	
9	10/29	15	Automating Software Development: CI/CT with GitHub Actions and other tools	
9	10/31		Midterm	M3: MIdterm Presentation 10/31
	11/5	16	App design, setup and code organization	
10	11/7	17	APIs & Frontend	HW2 - 11/8
	11/12	18	Frontend - React	
11	11/14	19	Deployment: Ansible	M4 - 11/15
40	11/19	20	Scaling: Kubernetes	
12	11/21	21	Final: CI/CD releases etc	
13	11/26 11/28		THANKS GIVING WEEK	
14	12/3		PROJECT TIME	HW3 - 12/2
	12/11		DELIVERABLES DEADLINE	M5 - 12/11