

			AC215 FALL 2024 SCHEDULE		
Week	Date	Session	Lecture	Milestones/HW due dates	
1	9/3	1	Introduction		
	9/5	2	Virtual Enviroments and Virtual Machines		
2	9/10	3	Containers I		
	9/12	4	Containers II		
3	9/17	5	Data Pipelines/ Data Management: Extract, Transform, Load (ETL) and Data Version		
	9/19	6	TF Data, TF Records, PyTorch Dataset, DataLoader, Cloud Storage	M1 - 09/20	
4	9/24	7	LLM tools and agents 1: LangChain, LlamaIndex, API calls, RAG, AI agents		
	9/26	8	LLM tools and agents 2: LangChain, LlamaIndex, API calls, RAG, AI agents	HW1 - 09/27	
5	10/1	9	Model Optimization: Distillation, Quantization, Compression [IB]		
	10/3	10	LLM fine tuning and LORA		
6	10/8		PROJECT WEEK		
	10/10				
7	10/15	11	Advanced training workflows: experiment tracking (W&B), multi GPU, serverless training (Vertex AI)		
	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		
	10/24	14	Modal Labs Guest Lecture		
9	10/29	15	Testing, Cloud Functions, Cloud Run, Kubeflow, Vertex AI Pipelines		
	10/31		Midterm	M3: Midterm Presentation 10/31	
10	11/5	16	Automating Software Development: CI/CD with GitHub Actions and other tools [IB]		
	11/7	17	App design, setup and code organization (SJ)	HW2 - 11/8	
11	11/12	18	APIs & Frontend (SJ) (Frontend - React (SJ) Optional Extra to be Scheduled)		
	11/14	19	Deployment: Ansible	M4 - 11/15	
12	11/19	20	Scaling: Kubernetes		
	11/21	21	Final: CI/CD releases etc		
13	11/26		THANKS GIVING WEEK		
	11/28				
14	12/3		PROJECT TIME	HW3 - 12/2	
	12/18		DELIVERABLES DEADLINE	M5 - 12/11	

AC215 FALL 2024 SCHEDULE						
Week	Date	Session	Lecture	Instructor	Milestones/HW due dates	
1	9/3	1	Introduction	PP		USA
	9/5	2	Virtual Environments and Virtual Machines	PP		Greece
2	9/10	3	Containers I	PP		Sweden
	9/12	4	Containers II	PP		Chile
3	9/17	5	Data Pipelines/ Data Management: Extract, Transform, Load (ETL) and Data Version	PP		Australia
	9/19	6	TF Data, TF Records, PyTorch Dataset, DataLoader, Cloud Storage	PP	M1 - 09/20	Belgium
4	9/24	7	LLM tools and agents 1: LangChain, LlamalIndex, API calls, RAG, AI agents	PP		Italy
	9/26	8	LLM tools and agents 2: LangChain, LlamalIndex, API calls, RAG, AI agents	PP	HW1 - 09/27	Kenya
5	10/1	9	Model Optimization: Distillation, Quantization, Compression [IB]	IB		Mexico
	10/3	10	LLM fine tuning and LORA	PP		India
6	10/8	###	PROJECT WEEK			
7	###	11	Modal Labs Guest Lecture Zoom	GL		Spain
	###	12	Advanced training workflows: experiment tracking (W&B), multi GPU, serverless training (Vertex AI)	IB	M2 - 10/18	Egypt
8	###	13	Model Deployment: Hosting, APIs, and Serving LLMs	CG		Turkey
	###	14	Model performance monitoring, data drift, or other post release items	PP		Switzerland
9	###	15	Testing, Cloud Functions, Cloud Run, Kubeflow, Vertex AI Pipelines	PP		Cyprus
	###		Midterm		M3: Midterm Presentation 10/31	
10	11/5	16	Automating Software Development: CI/CD with GitHub Actions and other tools [IB]	IB		Romania
	11/7	17	App design, setup and code organization (SJ)	SJ	HW2 - 11/8	Peru
11	###	18	APIs & Frontend (S.J) (Frontend - React (S.J) Optional Extra to be Scheduled)	SJ		Norway
	###	19	Deployment: Ansible	PP	M4 - 11/15	Sri Lanka
12	###	20	Scaling: Kubernetes	PP		Poland
	###	21	Final: CI/CD releases etc	PP		Netherlands
13	###		THANKS GIVING WEEK			
14	12/3		PROJECT TIME	PP	HW3 - 12/2	
	###		DELIVERABLES DEADLINE		M5 - 12/11	

If you cannot attend lectures please put your name here

Missing Lecture

09/03

09/05

09/10

Patrick and Octavian will attend remote

09/12

Yasmine

09/17

Rashmi

09/19

Luis

09/24

09/26

10/01

10/03

10/15

10/17

10/22

10/24 Zoom Guest Lecture

10/29

10/31

11/05

11/07

11/12

11/14

11/19

11/21

On Campus TFs

Li Yao

Luis

Octavian Balatel

Connor

Patrick

Online

Rashmi, Shivas, Yasmine

Ed Checks (EST)						
	Mon	Tues	Weds	Thurs	Fri	Sat
8						
9						
10						
11						
12PM						
1PM						
2PM						
3PM						
4PM						
5PM						
6PM						
7PM						
8PM						
9PM						
10PM						
11PM						

Date	
9/5	
9/7	
9/12	
9/14	
9/19	
9/21	Dask, Cloud Storage
9/26	TF Data and TF Records
9/28	Model Management: (multi gpu, data parallelization)
10/3	
10/5	
10/10	Distillation/Quantization/Compression, TF lite
10/12	Model performance monitoring, data drift, or other post release
10/17	ML Workflow Mangement: kubeflow, cloud functions
10/19	ML Workflow Mangement: Hands on Mega Pipeline App
10/24	
10/26	
10/31	App design, setup and code organization

TF (max 2 TFs per lecture)

Sign up here	Sign up here
Jarrold Parks	Connor
Boxiang	Sign up here

Jarrold Parks	Sign up here
Andrew	Sign up here
Cole	Sign up here
Sign up here	Sign up here

Sign up here	Sign up here
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Patrick		
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Chris		
Ignacio		
Pavlos		

AWS Account Id

1.5	7.44941E+11
2	7.83967E+11
1	9.54976E+11
1	5.5905E+11
0.5	
1	
0.5	
0.5	
8	

Grade Distribution

HW1	4
HW2	4
HW3	4
M1	4
M2	10
M3	25
M4	14
M5	35