

Start Dates (Thursday)	Deadline (Wednesday)	Week	Course	Cohort 65 (May 2024) Domestic - 5802	
30-May, Thu	5-Jun, Wed	Week 0	Course 0: Prep Course and Intro to Python	Prep : Data Analysis in Excel Analytical Problem Solving	
6-Jun, Thu	12-Jun, Wed	Week 1		Intro to Python	
13-Jun, Thu	19-Jun, Wed	Week 2		Python for DS	
20-Jun, Thu	26-Jun, Wed	Week 3	COURSE 1- Stats and EDA	1.Welcome 2.Data Viz. using Python 3. Intro to Git & Github [Optional]	
27-Jun, Thu	3-Jul, Wed	Week 4		EDA	
4-Jul, Thu	10-Jul, Wed	Week 5		Basic SQL	
11-Jul, Thu	17-Jul, Wed	Week 6		Advanced SQL	
18-Jul, Thu	24-Jul, Wed	Week 7		Lending club case study	
25-Jul, Thu	31-Jul, Wed	Week 8		Inferential Stats	
1-Aug, Thu	7-Aug, Wed	Week 9		Hypothesis Testing	
8-Aug, Thu	14-Aug, Wed	Week 10		Linear Regression Module	
15-Aug, Thu	21-Aug, Wed	Week 11		Linear Regression Module	
22-Aug, Thu	28-Aug, Wed	Week 12		Linear Regression Assignment:Bike sharing company (demand regression)	
29-Aug, Thu	4-Sep, Wed	Week 13		Logistic Regression	
5-Sep, Thu	11-Sep, Wed	Week 14		Naive Bayes + SVM {optional}	
12-Sep, Thu	18-Sep, Wed	Week 15		Model Selection	

19-Sep, Thu	25-Sep, Wed	Week 16	COURSE 2- ML I	Buffer	
26-Sep, Thu	2-Oct, Wed	Week 17		Advanced Regression	
3-Oct, Thu	9-Oct, Wed	Week 18		Tree Models	
10-Oct, Thu	16-Oct, Wed	Week 19		Random Forests + Practical Considerations	
17-Oct, Thu	23-Oct, Wed	Week 20		Boosting	
24-Oct, Thu	30-Oct, Wed	Week 21		Unsupervised Clustering	
31-Oct, Thu	6-Nov, Wed	Week 22		PCA	
7-Nov, Thu	13-Nov, Wed	Week 23		Telecom Churn Case Study	
14-Nov, Thu	20-Nov, Wed	Week 24	COURSE 3- ML II	Buffer	
21-Nov, Thu	27-Nov, Wed	Week 25		Introduction to Neural Networks - Part1	
28-Nov, Thu	4-Dec, Wed	Week 26		Introduction to Neural Networks - Part2	
5-Dec, Thu	11-Dec, Wed	Week 27		Convolutional Neural Networks	
12-Dec, Thu	18-Dec, Wed	Week 28		Assignment: Convolutional Neural Networks	
19-Dec, Thu	25-Dec, Wed	Week 29		Recurrent Neural Networks	
26-Dec, Thu	1-Jan, Wed	Week 30		Gesture Recognition - Project	
2-Jan, Thu	8-Jan, Wed	Week 31		Buffer	
9-Jan, Thu	15-Jan, Wed	Week 32	COURSE 4- DL	Exam Week	
16-Jan, Thu	22-Jan, Wed	Week 33		NLP - Lexical Processing	
23-Jan, Thu	29-Jan, Wed	Week 34		NLP - Syntactic Processing	

30-Jan, Thu	5-Feb, Wed	Week 35	COURSE 5- NLP	NLP Assignment - Syntactic Processing	
6-Feb, Thu	12-Feb, Wed	Week 36		NLP - Semantic Processing	
13-Feb, Thu	19-Feb, Wed	Week 37		NLP - Semantic Processing	
20-Feb, Thu	26-Feb, Wed	Week 38		Ticket classification Project	
27-Feb, Thu	5-Mar, Wed	Week 39		Buffer	
				MLOps Elective	Generative AI Elective
6-Mar, Thu	Wed, Mar 12,25	Week 40		Pre-Requisite Module	Working with ChatGPT APIs
Thu, Mar 13,25	Wed, Mar 19,25	Week 41		Introduction to MLOps	System Design and Building ShopAssist - Part I
Thu, Mar 20,25	Wed, Mar 26,25	Week 42		Designing Machine Learning Systems	System Design and Building ShopAssist - Part II
Thu, Mar 27,25	Wed, Apr 2,25	Week 43		Experimenting with Data and Model using MLflow	ShopAssist Project Submission + Deployment [Optional]
Thu, Apr 3,25	Wed, Apr 9,25	Week 44		Automating and Orchestrating pipelines with Airflow	Advanced NLP - Introduction to Attention Mechanism
Thu, Apr 10,25	Wed, Apr 16,25	Week 45		Building continuous learning infrastructure	Advanced NLP - Introduction to Transformers
Thu, Apr 17,25	Wed, Apr 23,25	Week 46			Vector Databases and Retrieval-Augmented Generation

Thu, Apr 24,25	Wed, Apr 30,25	Week 47		MLOps Assignment	Mr.HelpMate AI Project Submission
Thu, May 1,25	Wed, May 7,25	Week 48		Advanced NLP - Introduction to Attention Mechanism	Building LLM applications using LangChain
Thu, May 8,25	Wed, May 14,25	Week 49		Advanced NLP - Introduction to Transformers	Building LLM applications using Llamaindex
Thu, May 15,25	Wed, May 21,25	Week 50		Advanced CV - Object Detection & Semantic Segmentation	Finetuning Large Language Models
Thu, May 22,25	Wed, May 28,25	Week 51			SemanticSpotter Project Submission
Thu, May 29,25	Wed, Jun 4,25	Week 52			Scale and Deploy Generative AI Apps
Thu, Jun 5,25	Wed, Jun 11,25	Week 53		MLOps + Deployment: DL (Theory)	Future Developments in Generative AI
Thu, Jun 12,25	Wed, Jun 18,25	Week 54		MLOps + Deployment: DL (Case Study)	Fundamentals of Multimodal models like Stable Diffusion, Mid Journey + Working with StableDiffusion in Python (Optional)
Thu, Jun 19,25	Wed, Jun 25,25	Week 55		Exam on Sunday End of the week	Buffer
Thu, Jun 26,25	Wed, Jul 2,25	Week 56		Revision week - Skill test()	Exam week
Thu, Jul 3,25	Wed, Jul 9,25	Week 57	COURSE 6- Electives		
Thu, Jul 10,25	Wed, Jul 16,25	Week 58			
Thu, Jul 17,25	Wed, Jul 23,25	Week 59			
CAPSTONE				Capstone	Capstone