Data Science and Machine Learning
Delivery Schedule
17 Aug 2024

	Course	Topic	Content Release Date	Assessment Deadline	Weekend session (Sat/Sun)	Mentored Learning Session
Preparatory sessions	**Pre Work**	Pre work - Introduction to Python	Available on enrollment	-	20-Jul-2024	No
	Introduction to Data Science and AI	Intro to the world of Data Science	Available on enrollment	-	27-Jul-2024	No
	Pre Work	Pre-work - Introduction to Python	Available on enrollment	-	3-Aug-2024	No
	Introduction to Data Science and AI	The Must-know Mathematics and Statistics Behind DS	Available on enrollment	-	10-Aug-2024	No
	Introduction to Data Science and AI	Program Orientation + Intro to the world of Data Science	Available on enrollment	-	17-Aug-2024	No
	Pre Work	Pre-work - Introduction to Python	Available on enrollment	-	18-Aug-2024	No
	Pre Work	Data Science Application Case Study	Available on enrollment	-	24-Aug-2024	No

	Course		Content Release Date	Assessment Deadline	Weekend session (Sat)	Mentored Learning Session
		Labor Day Break			*2-Sep-2024*	
Week -1	**Foundations - Python and Statistics**	Python for Data Science	Available on enrollment	8-Sep-2024	7-Sep-2024	Yes
Week -2		Statistics for Data Science	5-Sep-2024	15-Sep-2024	14-Sep-2024	Yes
		Project 1	5-Sep-2024	22-Sep-2024		
Week -3		*Learning Break*			*21-Sep-2024*	
Week -4	**Making Sense of Unstructured Data**	Introduction, Clustering, Spectral Clustering, Components, and Embeddings	12-Sep-2024	29-Sep-2024	28-Sep-2024	Yes
Week -5		*Learning Break w/ Hands-on Masterclass 1*			*5-Oct-2024*	
Week -6	**Regression and Prediction**	Classical Linear and Nonlinear Regression and Extensions, Modern Regression with High-Dimensional Data, The Use of Modern Regression for	19-Sep-2024	13-Oct-2024	12-Oct-2024	Yes
Week -7		*Learning Break w/ Hands-on Masterclass 2*			*19-October-2024*	
Week -8	**Classification and Hypothesis Testing**	Hypothesis Testing and Classification	3-Oct-2024	27-Oct-2024	26-Oct-2024	Yes
		Project 2	3-Oct-2024	3-Nov-2024		
Week -9		*Learning Break w/ Hands-on Masterclass 3*			*2-November-2024*	
Week -10	**Deep Learning**	Deep Learning	24-Oct-2024	10-Nov-2024	9-Nov-2024	Yes
Week -11	**Recommendation Systems**	Recommendations and Ranking, Collaborative Filtering, Personalized Recommendations	7-Nov-2024	17-Nov-2024	16-Nov-2024	Yes
		Project 3	7-Nov-2024	24-Nov-2024		
Week -12	**Networking and Graphical Models**	Introduction, Networks, Graphical Models	14-Nov-2024	-	23-Nov-2024	Optional Masterclass
	Self-paced Modules					
		Thanksgiving Break			*30-Nov-2024*	
Self-paced	**Predictive Analytics**	Predictive Modeling for Temporal Data, Feature Engineering	28-Nov-2024		7-Dec-2024	Optional Masterclass
	Generative AI	Transformers, Large Language Models	28-Nov-2024		-	-
	ChatGPT and Generative AI - The Development Stack	ChatGPT and Generative AI - The Development Stack	28-Nov-2024		-	-
		Hackathon	6-Dec-2024	8-Dec-2024		
		Program Completion Ceremony			14-Dec-2024	

Note:

Pre Course - As you prepare for the launch of your program, to ensure that you make productive use of your time, we have released a special self-paced course for you called "Introduction to Data Science and AI". This will get you acquainted with the data science and AI world if you are not already familiar. Remember, that this is non-mandatory course and is not part of the main learning journey of the program you have enrolled for - this is additional content for your reference and self-paced learning. As part of the "Introduction to Data Science and AI" content, we will also be hosting support sessions with subject matter relevant to the content each week, for which you will receive communication.

Orientation will be conducted on two time slots 4:30AM ET AND 11:30AM ET to ensure learners from timezones can join at their convenince.

Mentored learning sessions will either happen on a Saturday or a Sunday during weekends. These will happen in small group of learners by the industry mentor and the timings for the same will be communicated after Orientation.

All sessions will be recorded and available on the learning platform (Olympus) within 6 hours after the live session.

The schedule is subject to change based on any improvements in the program structure or the availability of the mentor.

Assessment here means either a Quiz or a Project.