

PGP - Artificial Intelligence & Machine Learning

Orientation Session 13-May-2023

Structured Modules

	#	Module	Course	Content Release Date	Assessment Deadline	Mentored Learning Session	
Foundations	0	Pework	1 Setting up Python 2 Python Foundation	Available on enrollment	--	13-May	
	1	Python - Foundations	Introduction to Python	Available on enrollment	21-May	20-May	
			Python for Data Science	18-May	28-May	27-May	
			Data Visualization	25-May	4-Jun	3-Jun	
			Exploratory Data Analysis	1-Jun	11-Jun	10-Jun	
			Project Support Session	-	-	17-Jun	
			Project 1	1-Jun	23-Jun	24-Jun	
Machine Learning	2	Supervised Learning	Independence Day Break				
			Intro to Supervised Learning: Linear Regression	22-Jun	9-Jul	8-Jul	
			Decision Trees	6-Jul	16-Jul	15-Jul	
			Project 2	6-Jul	21-Jul	22-Jul	
	3	Ensemble Techniques & Model Tuning	Bagging	20-Jul	30-Jul	29-Jul	
			Boosting	27-Jul	6-Aug	5-Aug	
			Model Tuning Techniques	3-Aug	13-Aug	12-Aug	
			Project 3	3-Aug	18-Aug	19-Aug	
	4	Unsupervised Learning	K-means Clustering	17-Aug	27-Aug	26-Aug	
			Labor Day Break				
			Hackathon	1-Sep	3-Sep		
			Hierarchical Clustering + PCA	24-Aug	10-Sep	9-Sep	
Deep Learning	5	Introduction to Neural Networks	Pre-Work Deep Learning	14-Sep	Learning Break		
			Introduction to Deep Neural Networks	21-Sep	1-Oct	30-Sep	
			Building Blocks of Neural Network	28-Sep	8-Oct	7-Oct	
			Project 5	28-Sep	13-Oct	14-Oct	
	6	Introduction to Computer Vision	Pre-Work Computer Vision	12-Oct	Learning Break		
			Introduction to Computer Vision	19-Oct	29-Oct	28-Oct	
			Transfer Learning	26-Oct	5-Nov	4-Nov	
			Break				
	7	Introduction to Natural Language Processing	Hackathon	10-Nov	12-Nov		
			Project 6	26-Oct	17-Nov	18-Nov	
			Pre-Work Natural Language Processing	16-Nov	Thanksgiving & Learning Break		
			Vectorization and Sentiment Analysis using ML	23-Nov	1-Dec	2-Dec	
	Self-paced Courses	8	Statistical Learning	Inferential Statistics	Available on enrollment	-	-
				Hypothesis Testing	Available on enrollment	-	-
				Practice Project	Available on enrollment	-	-
9		Recommendation Systems	Intro to RecoSys, Market Basket Analysis,	Post module 7	-	-	
			Collaborative Filtering, SVD Approach, Hybrid Reco	Post module 7	-	-	
			Practice Project	Post module 7	-	-	
10		Model Deployment	Model Deployment, Serialization, Real Time	Post module 7	-	-	
			Productionalization, Kubernetes, Docker	Post module 7	-	-	

NOTES >>

- 1 as and when the design of the program is improved upon.
- 2 1 of the day. The exact time will vary for different time zones.
- 3 ould mean either a quiz or a project.
- 4 non graded and fun learning competitions.