AI/ML Using Python - Course Schedule		
Week	Topic	Assignment
Week 1 (15th May, 2025)	Introduction to DS	Assignment - 1 - Quiz
	Introduction to Python	
	Introduction to Spyder I & II	
	Variables & DataTypes	
	Operators	
Week 2 (22nd May, 2025)	Sequence Data Types [1-6]	Assignment - 2 Quiz
	Numpy	
Week 3 (29th May, 2025)	Descriptive Statistics	Assignment - 3
	Pandas	
Week 4 (5th June, 2025)	Data Visualization	Assignment-4 -Practice Case Study (Stock file)
	Data Preparation - Hands-on	
	Case Study - Data Preparation	
Practice -Ungraded Case Study 1 (Pre-owned Cars)		
Week 5 (12th June, 2025)	Inferential Statistics	Assignment - 5 (Quiz)
	Inferential Statistics - Hands on	
Week 6 (19th June, 2025)	Linear Algebra [1-7]	Assignment - 6 (Quiz)
	Data Imputation	
Week 7 (26th June, 2025)	Optimization for Data Science [1-6]	Assignment - 7 (Quiz)
	Hands-on Optimization	
	Webinar - Debugging	
Week 8 (03rd July, 2025)	Predictive Modeling -1	
Practice -Ungraded Case Study (Covid 19)		
Week 9 (10th July, 2025)	Predictive Modeling - 2	Assignment - 8 (Quiz)
Week 10 (17th July, 2025)	Classification & Clustering	Assignment - 9 (Quiz)
	Classification & Clustering - Hands-on	
Week 11 (24th July, 2025)	Dimensionality Reduction - PCA	
	Hands-on PCA	
Practice - Ungraded Case Study 3		
Week 12 (31st July, 2025)	Support Vector Machine	
	Hands-on SVM	
	Neural Networks	
	Hands-on Neural Networks	
Final Proctored Exam (Date to be announced) - Certificate		