

Data Science And Machine Learning								
Class	Date	Day	Hrs	Chapter Name	Assignments name	Given date	Submission Deadline	Trainer's deadline
<b>No Code Data Science</b>								
Class 1	24/02/2025	Mon	2	Data Science Pyramid and Job Roles No-Code Data Science Tool AI vs ML vs DS vs DL				
Class 2	28/02/2025	Fri	2	Data Cleaning Data Preprocessing				
Class 3	03/03/2025	Mon	2	2				
Class 4	07/03/2025	Fri	2	Machine Learning Basics Supervised Machine Learning Cross-Validation and Model Evaluation				
D1	09/03/2025	Sun		Doubt Clearing Session				
Class 5	10/03/2025	Mon	2	Feature Importance and Model Interpretation Unsupervised Machine Learning				
Class 6	14/03/2025	Fri	2	Model Deployment and Maintenance				
D2	16/03/2025	Sun		Doubt Clearing Session				
<b>Introduction to Python For Data Science</b>								
Class 7	17/03/2025	Mon	2	Introduction to Python and Virtual Environment				
Class 8	21/03/2025	Fri	2	Python Basics	DS-1	21/03/2025	25/03/2025	01/04/2025
D3	23/03/2025	Sun		Doubt Clearing Session				
Class 9	24/03/2025	Mon	2	Python for Data Science, File Handling using Pandas	DS-2	24/03/2025	28/03/2025	04/04/2025
Class 10	28/03/2025	Fri	2	Deep Dive into Python Libraries and its usage for Data Science				
Class 11	31/03/2025	Mon	2	Data Pre-Processing Basics				
Class 12	04/04/2025	Fri	2	Data Wrangling	DS-3	04/04/2025	08/04/2025	15/04/2025
D4	06/04/2025	Sun		Doubt Clearing Session				
<b>Data Visualization with Matplotlib and seaborn</b>								
Class 13	07/04/2025	Mon	2	Introduction to Matplotlib and Seaborn				
Class 14	11/04/2025	Fri	2	EDA (Exploratory Data Analysis)				
Class 15	14/04/2025	Mon	2	Deep Dive into Plots and its attributes	DS-4	14/04/2025	18/04/2025	25/04/2025
Class 16	18/04/2025	Fri	2	Statistical Analysis and Outlier detection	DS-5	18/04/2025	22/04/2025	29/04/2025
D5	20/04/2025	Sun		Doubt Clearing Session				
Class 17	21/04/2025	Mon	2	Data Pre-Processing Advanced - Feature Engineering, Dimensionality Reduction (PCA, t-SNE)				
Class 18	25/04/2025	Fri	2	Pre-Processing Tools: ColumnTransformer and Pipeline	DS-6	25/04/2025	29/04/2025	06/05/2025
Class 19	28/04/2025	Mon	2	Case Study 1: Program Guidance Implementing all the above process				
Class 20	02/05/2025	Fri	2	Case Study 2: Program Guidance Implementing all the above process				
D6	04/05/2025	Sun		Doubt Clearing Session				
<b>Machine Learning Basics</b>								
Class 21	05/05/2025	Mon	2	Introduction to Machine Learning and its Types				
Class 22	09/05/2025	Fri	2	Basics of Models, Model Evaluation, and Cross Validation				
Class 23	12/05/2025	Mon	2	Supervised Learning - Regression	DS-7	12/05/2025	16/05/2025	23/05/2025
Class 24	16/05/2025	Fri	2	Supervised Learning - Evaluation Metrics - MSE, F1 score, R2, RMSE, Precision, Recall, Confusion matrix	DS-8	16/05/2025	20/05/2025	27/05/2025
D7	18/05/2025	Sun		Doubt Clearing Session				
Class 25	19/05/2025	Mon	2	Supervised Learning - Classification				
Class 26	23/05/2025	Fri	2	Supervised Learning - Decision Tree and Ensemble Model	DS-9	23/05/2025	27/05/2025	03/06/2025
Class 27	26/05/2025	Mon	2	Supervised Learning - Regularization, Model Performance and Optimization - OverFitting, UnderFitting, Pruning	DS-10	26/05/2025	30/05/2025	06/06/2025
Class 28	30/05/2025	Fri	2	Unsupervised Learning - Clustering - KMeans, Hierarchical Clustering, Noise Reduction				
D8	01/06/2025	Sun		Doubt Clearing Session				
Class 29	02/06/2025	Mon	2	Unsupervised Learning - Evaluation Metrics - Cross Validation and Confusion Matrix	DS-11	02/06/2025	06/06/2025	13/06/2025
Class 30	06/06/2025	Fri	2	Hyperparameter Tuning - Grid Search, Bayesian, Random Search				
Class 31	09/06/2025	Mon	2	Basics of Model Deployment	DS-12	09/06/2025	13/06/2025	20/06/2025
Class 32	13/06/2025	Fri	2	Case Study 3: Program Guidance Implementing all the above process				
D9	15/06/2025	Sun		Doubt Clearing Session   Final Project Execution plan				
<b>Advanced Topics</b>								
Class 33	16/06/2025	Mon	2	Time Series Analysis and Forecasting				
Class 34	20/06/2025	Fri	2	Introduction to Deep Learning, Neural Network, and NLP				
Class 35	23/06/2025	Mon	2	Final Project - Day 1 - Presentation				
Class 36	27/06/2025	Fri	2	Final Project - Day 2 - Presentation	DS-P-001	27/06/2025	18/07/2025	25/07/2025
D10	29/06/2025	Sun		Doubt Clearing Session				
<b>BONUS</b>								
Class 37	30/06/2025	Mon	2	Cloud Introduction				
Class 38	04/07/2025	Fri	2	Fundamentals of Power BI and Tableau				
Class 39	07/07/2025	Mon	2	Fundamentals of DB (SQL and No SQL)				
Class 40	11/07/2025	Fri	2	Jenkins or Concourse Tool				
Class 41	14/07/2025	Mon	2	GitHub				
D11	20/07/2025	Sun		Doubt Clearing Session				