Annexure

Data-Driven Intelligence: Techniques and Applications Course Layout

Duration: 1.5-hour lecture per week
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https://web2geeks.in

Week	Topic	Lecture/ Lab
1	Types of Learning: What and Why?	Lecture
2	Confusion Matrix and related concepts	Lecture
3	Bias and Variance Trade-off	Lecture
4	Decision Tree	Lecture
5	Decision Tree Hands-on	Lab
6	Linear Regression & Linear Classifier	Lecture
7	Kernel Machines & SVM	Lecture
8	Linear Regression & SVM	Lab
9	Unsupervised Learning: Clustering	Lecture
10	EM algorithm & Gaussian Mixture Models	Lecture
11	Centroid Clustering from scratch	Lab
12	Hierarchical Clustering	Lecture
13	Perceptron	Lecture
14	Multi-Layer Perceptron (MLP)	Lecture
15	Convolutional Neural Network (CNN)	Lecture
16	CNN Architecture: LeNet Training	Lab
17	Bayesian Learning	Lecture
18	Bayesian Learning Continued	Lecture

Table 1: Data-Driven Intelligence: Techniques and Applications week-wise course layout.