

LESSON PLAN

Contact Hour (Cumulative)	Unit No.	Topic	Teaching(*) Methodology	Remark
1	I	Introduction to AI/major	PPE	
2		Types of machine learning	PPT	
3		Challenges of ML	PPT	
4		Statistical Learning	B.B	
5		Estimating Risk Statistics	BB	
6		Empirical Risk Minimization	BB	
7	II	Supervised Learning	PPT	
8		Distance Based methods	PPT	
9, 10		Decision Tree	BB	
11, 12		Naive Bayes	BB	
13		Linear Regression	BB	
14		Logistic Regression	BB	
15		Support vector Machine	BB	
16		MNIST, Ranking	BB	
17	III	Unsupervised learning	PPT	
18		K-Means clustering	PPT	
19		clustering for Image Segmentation	PPT	
20		clustering for preprocessing	PPT	
21		clustering for Semi-supervised	PPT	
22		DBSCAN, Gaussian Mixtures	PPT	

*Black Board / LCD / OHP / Other Method

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23	IV	Ensemble learning	PPT	
24		Random Forest	BB	
25		Bagging and Boosting, AdaBoost	PPT	
26, 27		SVM for linear classifiers	BB	
28, 29		SVM for Non linear classifiers	BB	
30		SVM for Regression	BB	
31	V	Dimensionality Reduction	BB	
32		PCA	BB	
33		Scikit Learn	BB	
34		Randomized PCA	BB	
35		Kernel PCA	BB	
36	VI	Neural Network, Deep learning	BB	
37		ANN with Keras	PPT	
38		MLPs with Keras	BB/PPT	
39		Tensor flow 2	PPT	
40		Pre processing data with Tensor flow.	PPT	

15/11/2019