

St Ann's College of Engineering and Technology  
Department of Computer Science and Engineering  
Lecture Schedule

Subject : MACHINE LEARNING

Year IV CSE C -II SEM

Name of the Faculty: Phani Lalithenra N

Academic Year: 2019-20

No of Classes per week: 4+1

S.NO	DATE	UNIT	TOPIC	
1	18-Nov-19	I	Introduction: Machine Learning	
2	19-Nov-19		Tasks: the problems that can be solved with machine learning	
3	20-Nov-19		Tasks: Looking for structure, Evaluating performance on a task	
4	21-Nov-19		Models: Geometric models, Probabilistic models	
5	21-Nov-19		Models: Logical models, Grouping and grading	
6	25-Nov-19		Features, the workhorses of machine learning.	
7	26-Nov-19		Feature construction and transformation, Interaction between features	
8	27-Nov-19		Binary classification and related tasks	
9	28-Nov-19		Assessing classification performance	
10	28-Nov-19		Tutorial	
11	2-Dec-19		Scoring and ranking	
12	3-Dec-19		Class probability estimation	
13	4-Dec-19		Revision through ppt	
14	5-Dec-19		<b>Slip Test I</b>	
15	5-Dec-19	II	Handling more than two classes	
16	9-Dec-19		Handling more than two classes	
17	10-Dec-19		Multi-class scores and probabilities	
18	11-Dec-19		Regression	
19	12-Dec-19		Unsupervised and descriptive learning	
20	12-Dec-19		Tutorial	
21	16-Dec-19		The hypothesis space	
22	17-Dec-19		Paths through the hypothesis space, Closed concepts	
23	18-Dec-19		Beyond conjunctive concepts	
24	19-Dec-19		Revision through ppt	
25	19-Dec-19		<b>Slip Test II</b>	
26	23-Dec-19		Tree models: Decision trees,	
27	26-Dec-19		Ranking and probability estimation trees	
28	30-Dec-19		Sensitivity to skewed class distributions	
29	31-Dec-19		Tree learning as variance reduction, First-order rule	
30	1-Jan-20		III	Rule models: Learning ordered rule lists, Learning unordered rule sets
31	2-Jan-20			Rule models: Learning ordered rule lists, Learning unordered rule sets
32	2-Jan-20	Tutorial		
33	6-Jan-20	Learning unordered rule sets		
34	7-Jan-20	Revision		
35	8-Jan-20	Revision		
36	9-Jan-20	Revision		
38	9-Jan-20	Revision		
37	13-Jan-20	Revision		
38	20-Jan-20	Revision		
39	21-Jan-20	Revision		
40	22-Jan-20	Revision		
41	23-Jan-20	Revision		
42	23-Jan-20	IV	Linear models: Introduction	
43	27-Jan-20		Linear models: The Least squares method	
44	28-Jan-20		The perceptron: a heuristic learning algorithm for linear classifiers	
45	29-Jan-20		Support vector machines	
46	30-Jan-20		obtaining probabilities from linear classifiers	
47	30-Jan-20		Tutorial	
48	31-Jan-20		Distance Based Models: Introduction	

49	3-Feb-20		Neighbours and exemplars	
49	4-Feb-20		Neighbours and exemplars	
50	5-Feb-20		Nearest Neighbours classification	
51	6-Feb-20		Distance Based Clustering, Hierarchical Clustering	
52	7-Feb-20		Revision	
53	10-Feb-20		<b>Slip Test III</b>	
54	11-Feb-20	V	The normal distribution and its geometric interpretations	
55	12-Feb-20		Probabilistic models for categorical data	
56	13-Feb-20		Discriminative learning by optimising	
57	13-Feb-20		Tutorial	
58	17-Feb-20		Probabilistic models with hidden variables	
59	18-Feb-20		Features: Kinds of feature	
60	19-Feb-20		Feature transformations	
61	20-Feb-20		Feature construction and selection, Model ensembles	
62	20-Feb-20		Tutorial	
63	24-Feb-20		Model ensembles: Boosting	
63	25-Feb-20		Revision	
64	26-Feb-20		<b>Slip Test IV</b>	
65	27-Feb-20		VI	Dimensionality Reduction:
66	27-Feb-20			Principal Component Analysis (PCA)
67	2-Mar-20	Implementation and demonstration		
68	3-Mar-20	Artificial Neural Networks		
69	4-Mar-20	Neural network representation		
70	5-Mar-20	appropriate problems for neural network learning		
71	5-Mar-20	Tutorial		
72	9-Mar-20	Revision		
72	10-Mar-20	Revision		
73	11-Mar-20	Revision		
74	12-Mar-20	Revision		
75	12-Mar-20	Revision		
76	16-Mar-20	Revision		
77	17-Mar-20	Revision		
78	18-Mar-20	Revision		
79	19-Mar-20	Revision		
81	19-Mar-20	Revision		
80	23-Mar-20	Revision		
81	24-Mar-20	Revision		
82	26-Mar-20	Revision		
83	26-Mar-20	Revision		
Text Books				
1	Machine Learning: The art and science of algorithms that make sense of data, Peter			
2	Machine Learning, Tom M. Mitchell, MGH			
References				
1	Understanding Machine Learning: From Theory to Algorithms, Shai Shalev-Shwartz, Shai			
2	Machine Learning in Action, Peter Harington, 2012, Cengage.			

Faculty

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