



Department of Computer Science & Engineering - AIML

Lesson Plan & Work-done Diary for AY: 2026-27, odd Semester

Course with Code: Machine Learning –BAI702				Faculty: Dr.KHATEEJA AMBAREEN			Semester & Section: VII	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1								
1.		Introduction: Well-Posed Learning Problems	Chalk & talk	1				
2.		Designing a Learning System,	Chalk & talk	2				
3.		Perspectives and Issues in Machine Learning	Chalk & talk	3				
4.		Concept Learning and the General-to-Specific Ordering	Chalk & talk	4				
5.		A Concept Learning Task, Concept Learning as Search	Chalk & talk	5				
6.		Find-S: Finding a Maximally Specific Hypothesis	Chalk & talk	6				
7.		Version Spaces and the Candidate-Elimination Algorithm	Chalk & talk	7				
8.		Remarks on Version Spaces and Candidate-Elimination, Inductive Bias	Chalk & talk	8				



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MODULE-2								
1.		Learning Sets of Rules: Sequential Covering Algorithms	Chalk & talk	1				
2.		Learning Rule Sets: ExampleBased Methods, Learning First-Order Rules	Chalk & talk	2				
3.		FOIL: A First-Order Inductive Learner	Chalk & talk	2				
4.		Analytical Learning: Perfect Domain Theories	Chalk & talk	4				
5.		Explanation-Based Learning	Chalk & talk	5				
6.		Explanation-Based Learning of Search Control Knowledge	Chalk & talk	6				
7.		Explanation-Based Learning of Search Control Knowledge	Chalk & talk	7				
8.		Inductive-Analytical Approaches to Learning	Chalk & talk	8				



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MODULE-3								
1.		Decision by Committee: Ensemble Learning: Boosting:	PPT	1				
2.		Adaboost , Stumping, Bagging: Subagging	PPT	2				
3.		Random Forests, Comparison With Boosting	PPT	3				
4.		Different Ways To Combine Classifiers	PPT	4				
5.		Unsupervised Learning: The KMEANS algorithm	PPT	5				
6.		Dealing with Noise ,The k-Means Neural Network	PPT	6				
7.		Normalisation ,A Better Weight Update Rule	PPT	7				
8.		Using Competitive Learning for Clustering	PPT	8				



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MODULE-4								
1.		Unsupervised Learning: Vector Quantisation	PPT	1				
2.		the self-organising feature map , The SOM Algorithm	PPT	2				
3.		Neighbourhood Connections, SelfOrganisation	PPT	3				
4.		Network Dimensionality and Boundary Conditions, Examples of Using the SOM.	PPT	4				
5.		Sampling : Random Numbers	PPT	5				
6.		Gaussian Random Numbers, Monte Carlo Or Bust	PPT	6				
7.		The Proposal Distribution	PPT	7				
8.		Markov Chain Monte Carlo	PPT	8				



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MODULE-5								
1.		GraphicalModels: Bayesian Networks	PPT	1				
2.		Approximate Inference	PPT	2				
3.		Making Bayesian Networks , Markov Random Fields	PPT	3				
4.		Hidden Markov Models (Hmms),	PPT	4				
5.		The Forward Algorithm, The Viterbi Algorithm	PPT	5				
6.		The Baum–Welch Or Forward– Backward Algorithm	PPT	6				
7.		Tracking Methods	PPT	7				
8.		The Kalman Filter, The Particle Filter.	PPT	8				



	Activity	Planned	Actual	Remarks
1	TheoryClasses	40		
2	Assignments/ Quizzes/Self-study	3		
3	Tutorials/ Extra classes	1		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage inCurriculum)	100		
Planning			Execution	
FacultySignature:			FacultySignature:	
HoD Signature:			HoD Signature:	