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Fourth Semester M.Tech. Degree Examination, Aug./Sept. 2020 Machine Learning Techniques

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1	a.	Define Machine Learning. Explain basic design issues in Machine Learning.			
	b.	Explain Candidate Elimination Leaning Algorithm.	(10 Marks)		
2	a.	Illustrate General-to-Specific ordering of hypothesis with an example.	(10 Marks)		
_	b.	Define concept learning. Explain concept learning with an example.	(10 Marks)		
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2		Define a decision tree. Illustrate construction of a learned decision tree for the	concent of		
3	a.		(10 Marks)		
	1	"Play Tennis".			
	b.	Illustrate the design choice made for the Checker's learning problem.	(10 Marks)		
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4	a.	Illustrate the Neural Network representation in ALVINN system.	(10 Marks)		
	b.	Define a perceptron. Explain a two input perceptron representation in a hyper pla	ine.		
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5	a.	Explain Prototypical. Genetic algorithm.	(10 Marks)		
	b.	Explain genetic programming with a example.	(10 Marks)		
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6	a.	Explain Baye's theorem.	(10 Marks)		
	b.	Explain Gibbs algorithm.	(10 Marks)		
7	a.	Explain K-Nearest algorithm for continuous valued target functions.	(10 Marks)		
	b.	Explain learning set of first order rules.	(10 Marks)		
8	a.	Explain Q function and Q learning algorithm.	(10 Marks)		
	b.	Compare inductive learning and analytical learning.	(10 Marks)		

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