USN					

15EC834

Eighth Semester B.E. Degree Examination, November 2020 **Machine Learning**

Max Marks: 80

	Tin	ne: 3	hrs.			3	Max. Ma	rks: 80
				Note: Answer any FIVE	full questions irre	espective of modu	les.	
					Module-1		,	
	1	a.	Explain	briefly the choosing a	representation fo	r the target fund	ction and a	function
	-		approxi	mation algorithm.				(08 Marks)
		b.	With th	e diagram, explain the final	design of the che	ckers learning pro	gram.	(08 Marks)
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						1		(00 Mandra)
	2	a.	What is	the concept Learning task,	explain with as ex	kampie.		(08 Marks) (08 Marks)
		b.	Explain	the candidate elimination l	earning algorithm			(UO IVIAI KS)
		2			Module-2			
	3	a.	Explain	the decision tree for the co		nis.		(08 Marks)
	5	b.	What is	reduced error pruning and	rule post pruning	?		(08 Marks)
	4	a.	What is	the gradient descent algori	thm for training a	linear unit?		(08 Marks)
		b.		the back propagation algo	orithm for feed to	rward network co	ntaining two	o layers of
4			sigmoi	d units?				(08 Marks)
		\$			Module-3	Y.	7	
	5	a.	What is	s the Baye's theorem, expla	in briefly with an	example.		(08 Marks)
	J	b.	What is	s the Brute-force MAP learn	ning algorithm, ex	plain briefly.		(08 Marks)
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				V.		**************************************		
	6	a.		n the minimum description				(08 Marks)
da (b.	What i	s the Naïve Baye's classifie	r? Explain briefly	•		(08 Marks)
		3	No.		N/ 1 1 4 4 2			
3	-		WIL 4 :	- the homeon waighbouloo	Module-4	iefly		(08 Marks)
	7	a.	What I	s the k-nearest neighbor lean n briefly the locally weighte	rillig: Explaili bi	on		(08 Marks)
10		b.	Explain	if offerry the locally weight	a micar regression	511.		(00112011)
S III			y		1			
200	8	a.	What i	s the general to specific Be	am search? Explai	in briefly.		(08 Marks)
7		b.	What i	s learning sets of First Orde	r Rule (FOIL)? E	xplain briefly.		(08 Marks)
				4				
1		5		And the second s	Module-5	POLOG EDGO	Condain Inda	.Cl.
	9	a.		is the explaination based lea			Explain orie	
		b.	Explai	n the remarks on explainati	on based learning.			(08 Marks) (08 Marks)
					Spr.			()
								(00 75 7 7
	10) a.		n briefly the Hypothesis sp				(08 Marks)
		b.	What	is the FOCL algorithm? Exp	olain briefly.			(08 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.