15EC834

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

Max. Marks: 80

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	BANGA		Note: Answer any FIVE full questions irrespective of modules.	
ું.			Module-1	
actic	1	a.	Explain briefly the choosing a representation for the target function and	a function
alpr	•	۵.	approximation algorithm.	(08 Marks)
is m		b.	With the diagram, explain the final design of the checkers learning program.	(08 Marks)
ompleting your answers, compulsorily draw diagonal cross lines on the remaining blank pages. evealing of identification, appeal to evaluator and /or equations written eg, $42+8=50$ , will be treated as malpractice.				
es. oe tr	2	a.	What is the concept Learning task, explain with as example.	(08 Marks)
pag Vill		b.	Explain the candidate elimination learning algorithm.	(08 Marks)
lank 50, v				
lg bl			Module-2	
inin 2+8	3	a.	Explain the decision tree for the concept of play tennis.	(08 Marks)
ema		b.	What is reduced error pruning and rule post pruning?	(08 Marks)
he r				
on t vritt			What is the anadient descent algorithm for training a linear unit?	(08 Marks)
nes ons v	4	a. L	What is the gradient descent algorithm for training a linear unit?  Explain the back propagation algorithm for feed forward network containing tw	
ss li aatic		b.	sigmoid units?	(08 Marks)
cro			signioid diffes!	(00 1/24/10)
onal d/o			Module-3	
liago r ano	5	a.	What is the Baye's theorem, explain briefly with an example.	(08 Marks)
aw c	_	b.	What is the Brute-force MAP learning algorithm, explain briefly.	(08 Marks)
y dra valu				
oril: to e				
puls peal	6	a.	Explain the minimum description length principle.	(08 Marks)
com,		b.	What is the Naïve Baye's classifier? Explain briefly.	(08 Marks)
ers, o				
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 to	_		Module-4  Will the law agent which are leaving? Explain briefly	(08 Marks)
ır ar Ienti	7	a.	What is the k-nearest neighbor learning? Explain briefly.  Explain briefly the locally weighted linear Regression.	(08 Marks)
you of ic		b.	Explain otherly the locally weighted linear Regression.	(00 1/141113)
ting				
nple veal	8	a.	What is the general to specific Beam search? Explain briefly.	(08 Marks)
cor y re	Ū	b.	What is learning sets of First Order Rule (FOIL)? Explain briefly.	(08 Marks)
On				
.1.			Module-5	
lote	9	a.	What is the explaination based learning algorithm PROLOG - EBG? Explain brief	efly.
nt N		b.	Explain the remarks on explaination based learning.	(08 Marks)
orta				(08 Marks)
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(08 Marks)

(08 Marks)

a. Explain briefly the Hypothesis space search.b. What is the FOCL algorithm? Explain briefly.