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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Machine Learning,ML (course)



Register for Certification

Course outline

How does an **NPTEL** online course work? ()

Week 1: Introduction to the Machine Learning course ()

- Introduction to the Machine Learning Course (unit? unit=16&lesson=17)
- Foundation of Artificial Intelligence and Machine Learning (unit? unit=16&lesson=18)
- Intelligent Autonomous Systems and

exam Week 1: Assignment 1 (https://examform.nptel.ac.in/2023_01/exam_form/dashboard)

Your last recorded submission was on 2023-02-04, 15:58 Due date: 2023-02-08, 23:59 IST. IST

- 1) Which answer is the most appropriate description of the concept of Recursion 1 point
 - O the reduction of the solution to a problem into a sequence of solutions to sub-problems
 - Othe reduction of the solution to a problem into a parallell solutions to sub-problems
 - the decomposition of a problem into sub-problems followed by the solution of these subproblems
 - O the reduction of the solution to a problem into the the same form of solutions to subproblems
- 2) Which is the most appropriate description of the concept of Tensor?

1 point

- A matrix with vectors as components
- A multidimensional table that is a n-dimensional generalization of scalars, vectors and matrices
- O A matrix with more and two dimensions
- 3) Which is the most appropriate characterization of a Hamiltonian graph?

1 point

- O A graph that can be drawn in a plane without any edges crossed
- A graph for which exists a closed path that traverses the vertices of the graph exactly once
- O A graph for which exists a closed path that traverses the edges of the graph exactly once
- 4) Which is the most appropriate characterization of the concept of Convolution?

1 point

- O The recursive application of several functions on an argument
- \bigcirc A mathematical operation which when applied to two functions (f and g) produces a function.



Artificial Intelligence	OAn integral where the bounds are functions	
(unit? unit=16&lesson=19)	5) Which is the most appropriate characterization of a Multivariate function	1 point
Applications of	O a function with properties defined by another function	
Machine	\bigcirc a function that assumes two or more values for at least one argument value	
Learning (unit? unit=16&lesson=20)	a function of more than one variable	
Lecture Notes (unit?	6) Which is the most appropriate characterization of the concept of Regression?	1 point
unit=16&lesson=21)	A technique for estimating relationships between variables	
Further	O A technique for infering causes from effects	
Reading Material (unit?	A technique for reducing compounds onto components	
unit=16&lesson=22)	7) Who pioneered work on Computer Vision in 1957?	1 point
Quiz: Week 1	Marvin Minsky	
: Assignment 1	○ Ray Solomonoff	
(assessment?	Oliver Selfridge	
name=97)	O John Holland	
Week 1	O Herbert Simon	
Feedback form : Machine	○ Frank Rosenblatt	
Learning, ML (unit?	8) Who coined the term Machine Learning in 1959?	1 point
unit=16&lesson=23)	O Marvin Minsky	
Week 2:	○ John McCarthy	
Characterization	O Allen Newell	
of Learning Problems ()	Arthur Samuel	
	O Herbert Simon	
Week 3:	○ Frank Rosenblatt	
Forms of	0). To which extensive of search strategies does Donth First Search belong?	1 noint
Representation ()	To which category of search strategies does Depth First Search belong?	1 point
	Brute-Force Search Strategies	
Lecture	O Informed (Heuristic) Search Strategies	
Notes ()	O Local Search Algorithms	
Text	10) In knowledge representation, the collections of definitions of basic entities and their	1 point
Transcripts ()	relationships for a specific domain is referred to by a specific term. Which term?	
Download	○ Epistemology	
Videos ()	Ontology	
Lecture	OPhenomenology	
notes ()	11) The 'Logic Theorist' developed in 1955 has been called 'The first Artificial Intelligence Program'. Which of the early AI scientist was one of the co-developers.	1 point
	O Marvin Minsky	

◯ John McCarthy			
◯ John Holland			
O Allen Newell			
12) On which calculus did John McCarthy base the LISP programming language?			
O FUNCTIONAL CALCULUS			
O DIFFERENTIAL CALCULUS			
O LAMBDA CALCULUS			
13) What is MINIMAX?			
O A Decision Rule that maximizes the potential win in a best case scenario			
A Decision Rule that minimizes the potential loss in a worst case scenario			
O A Decision Rule that optimizes the balance potential loss and potential win in worst and best cases			
14) What do you call a function that estimates the cost of a path from the current node in a search graph to the closest goal node?	1 point		
OMINIMALISTIC			
OPPORTUNISTIC			
HEURISTIC			
You may submit any number of times before the due date. The final submission will be considered for grading.			
Submit Answers			

