

VIL IN	10V. 20	score:	
A	Support vector machines always find linear decision boundarie ature space. True False	s in the o	riginal
A	Support vectors are the positives and negatives used to form the undary. True False	ne decisio	n
A	Support vector machines minimize the margin between positive mples. True False	e and neg	ative
\sim	Support vector machines minimize the magnitude of the weighted True False	t vector.	
В	What is the kernel trick? Lifting points to a higher-dimensional space Not having to define the lifting function explicitly for a single argument Letting the method figure out the right lifting transformation		
\sim	Support vectors have non-zero alpha weights. True False		
A	For most neural networks, the outputs are a linear combination to the second se	າ of the in	puts

8. We have a network with 3 inputs (no bias) and 2 hidden neurons in a single hidden layer. $w(1)11 = 0.1$, $w(1)12 = 0.2$, $w(1)13 = 0.7$, $x1 = 10$, $x2 = 10$, $x3 = 0$. At the hidden layer, we have $h(a) = a^2$ (a-squared). What is $z1$ equal to?
A 1 B 3
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 To train a network, we compute a set of quantities delta, which we use to
update the weights. For which nodes do we compute delta first? (A) inputs
B hidden C outputs
10. The loss is a function of the activations at the hidden layer, which are a function of the weights, so we need to compute: dE/dzj * dzj/daj * daj/dwji
A True B False
11. We might use backprop of error to compute the value for which of the above quantities?
A dE/dzj B dzj/daj
C daj/dwji
12. What is the key intuition for using ensembles?
A) the imperfect individual learners will make uncorrelated mistakes B) we will only include very strong individual learners
individual learners will rely on each others' answers to collectively perform better