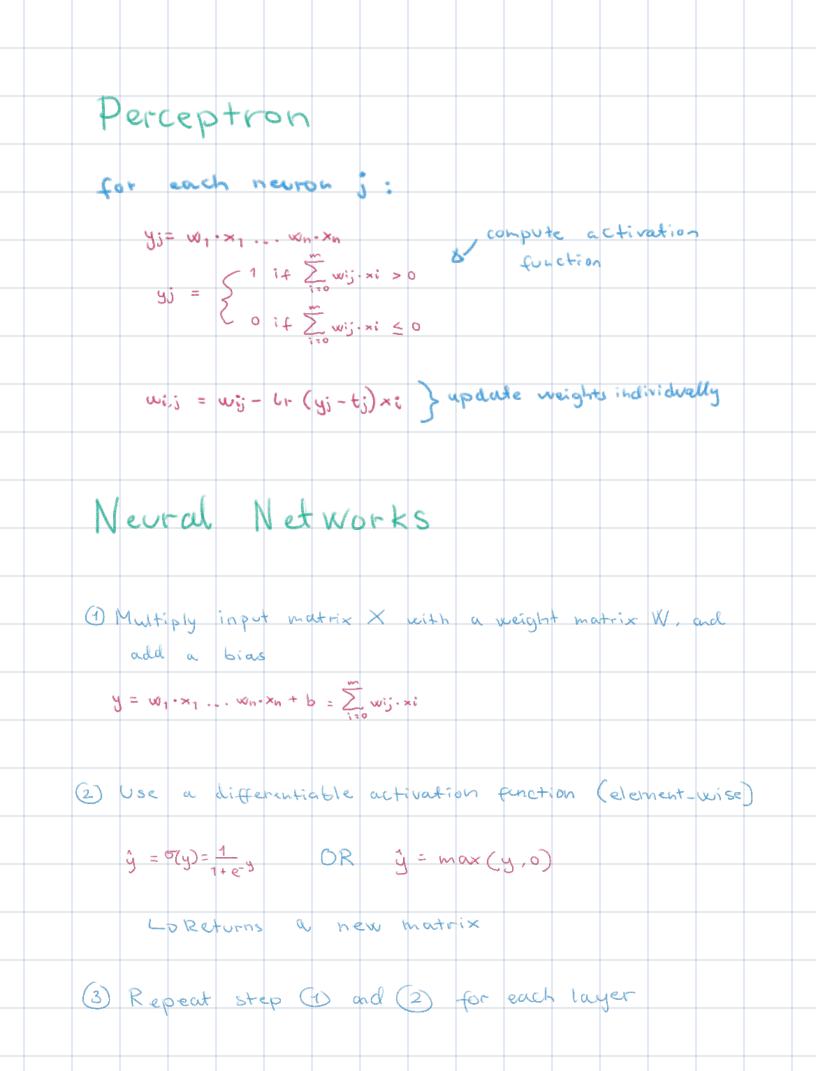
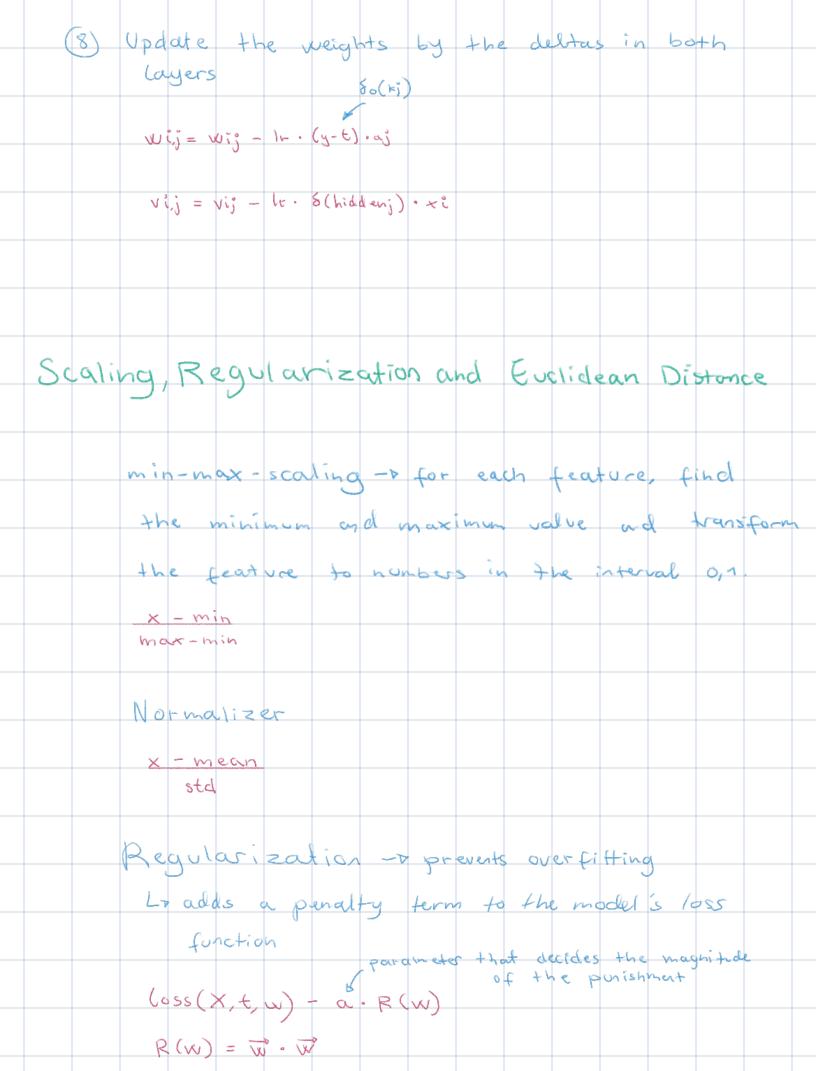


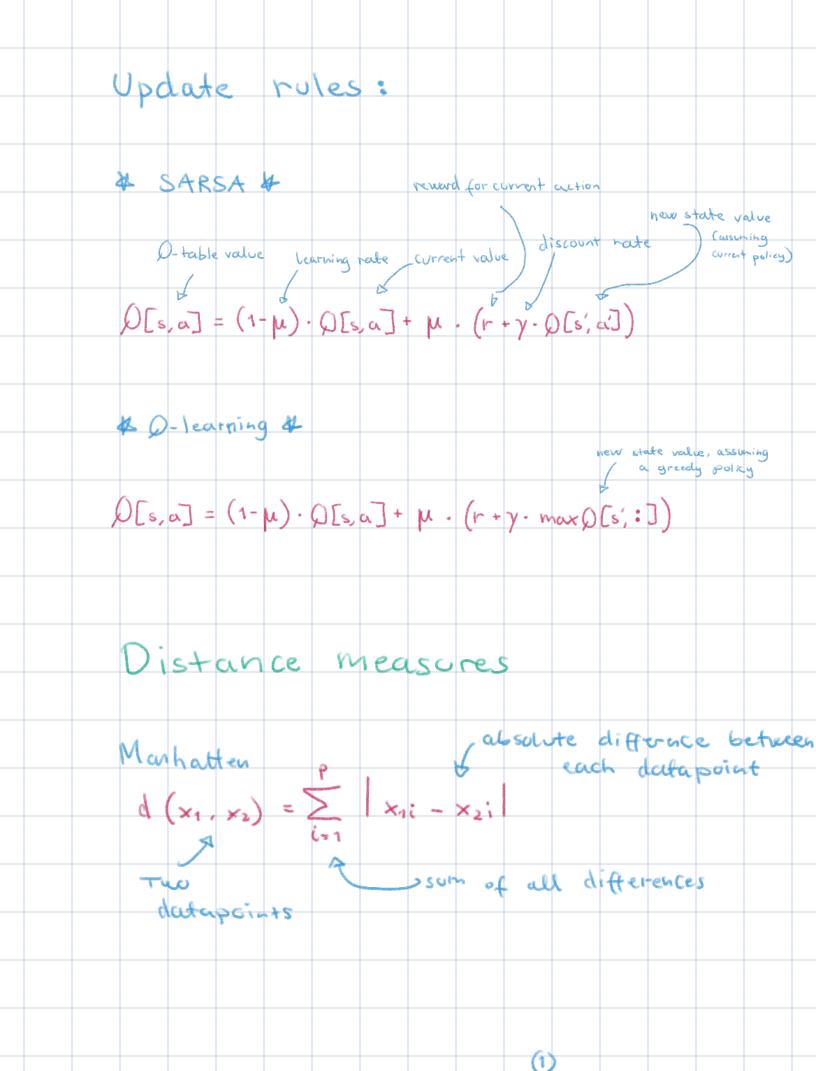
Loss =	1 5 (ti · log(g)	:) + (1-ti) · log(1-g:	
by	late the gradients of taking the partial of s function with nespe	derivatives of the	
	Loss > precicion : $wi - Ur(y-t)xi$	I update the we	
Mulfi	inomial L	ogistic Rec	ression
y = w1	·×1 wh-×n + b}	prediction y	
3	k=1 La divid	exponential of the sum and normalize so e each exponential of weighted sum by the sum e exponentials	ftnac
Cross-entropy los) + (1-ti) · log(1-ĝi)	
	Loss > precicion z = wi - Ur(y - t)xi	the loss is cla	

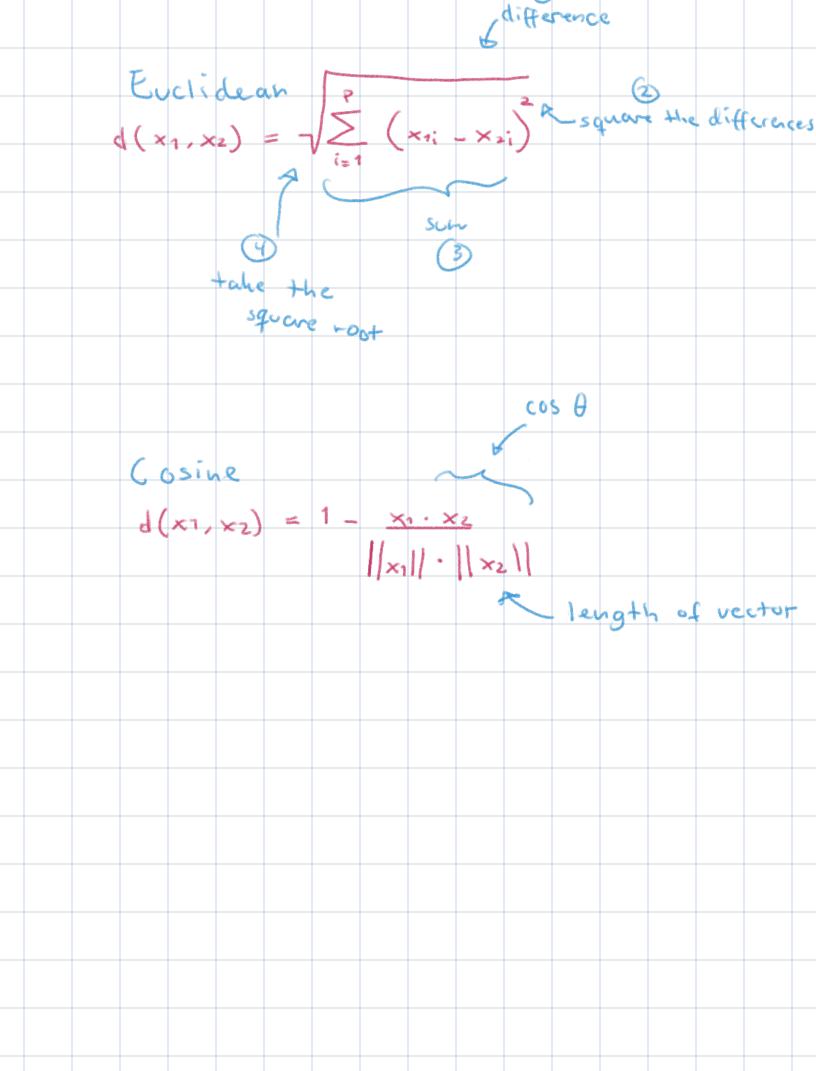


1 At the final layer, use the signoid for binary neural networks and multi-label neural networks and the softmax for multi-class neural networks. (3) Apply a loss function to MSE or Cross-entropy Loto the output of the activation function from the final layer (signoid or softmax) 6 Compute the delta terms in the output layer and update the weights between the output layer and hidden layer delta term at the final mode; δο(kj) = y-t (assumes cross-entropy rose) (Compute the duta terms in the hidden layer S(hidden;) = aj(1-aj). \(\sum_{i=1} \delta \) \(\sum for ; = 1, ... , k * For one instance 5 (hj) = (y-t) · aj (1 - aj) · wji



Euclidean distance -+ measure of the straight-line distance between two points in a multi-dimensional space. 2 square each difference (3) (1) take the difference bectween the points Dtake the square root of the som Reinforcement Learning greedy action selection Lo max O(s,a) - action with the highest average reward value in the Otteble for states. E-greedy action selection: Lo initialize a probability & [[0,7] select max O(s.a) with prob 1- & select random a with prob &





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