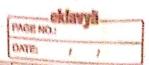
	er in in Arte en die in de la Region de la R
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\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Explain the mainly
	Explain the radial basis fun neutral
	equation in detail.
7	The state of the s
	A radial basis fun nin CRBATT)
	is particular type of neural plw.
	RBFH condition of an input vector, a
*	layer of RBF neutons, and an all
	layer with one node per category or
	dass of data
	The state of the s
snout y	rector RBZ weighted Neerons sums
	cott.
1	weighs corkgory t
	E) -> ocore
	alle category c
	category c E Score
[·	weights
;	ux
	u is the prototype
4	to compate
	to compare regain of
	cequition .
CC A	
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of the bell curve.	
since, it's the value at the center	
called the neuron's 18 "center",	7
prototype vector	
called its "activation" value.	
Sucan	
response falls of is bell ourse.	
The shape of the RBF neuron's	
falls of the emponentially towards o.	
input and prototype grous, the response	
will be 1. As the distance bett the	
then the old of that ROT howon	
If the input is equal to the prototype	
o and I which is a measure of oimilarly	
prototype, and outputs a value beto	
compared the input rector to its	
From the training set, Each POF bellow	
reator which is just one of the rectors	5
Each &OF neuron Stores a prototype	
The ROF Neurono-	
each of the ROF neword.	
The entire input yearon to shown to	
rector that you are trying to classify.	
The input reator is the n-dimension	
The Input region	
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	Comment of the Commen



The output Itades

The output of the new consists of a set of nodes, one per category that we are trying to classify. Each output node compates a sort of ocore for the associated category. Typically, a classification decision is made by assigning the input to the category with the highest score.

4 Cx2 = e - BIIX - UITe

In the Augustian distrin, my refers to the mean of the olighin, here it is the prototype vector which is at the center of the bell curve.

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2.	Describe markox chain monte carlo method with help of real time inotance
	Markox chain Monte (arto (MCMC) methods comprise a class of algorithms for sampling from a probability distribution. By constructing a Markox chain that has the desired distribution as its equilibrium distribution, one can obtain a sample of the desired distribution by recording states from the chain.
	Monte catto is a technique for mandomly sampling a probability distribution and approximation and approximation and approximation and approximation and approximation method for desired quantity. Markov chain is a systematic method for generating a sequence of random variables where the current value is probabilistically dependent on the value of the prior variable. Specifically, selecting the next variable is only dependent upon the last variable in the chain.

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Example-

Markox chains applied to Pagetank.

Apoque computes a value called PagePank For each entry in its search engine, Page Rank. is part of what determines which web page is displayed in which rank when you hit the search button.

for some pagep, the PageRank is defined

PRCP) = \(\frac{PRCV)}{VEBP} LCV)

where Bp is the cet of webpages that
link to p and LCV) is the no of pages
that p links to thote that PageRank
is essentially a recurrence relan,
but the important thing is that the
pageRank of passumes that the user
tandomly sufer is rependent to the user
depends only on the prexious page.

P(Xn+1=x | x1=x1,x2,...,xn)=P(xn+1=x | xn=xn)

angle is able to estimate the PagePank

. And		Example - Pandom walk to applied to
	-	sampling the web web.
		to do research, we usually want a
4,5		tandom example.
5 A. T.	i, Ö	
		But how on the web, do we get a
	1 1 1	random cample of web pages?
		1. Generate random IP address and
115	n -	Find that most Ip addresses are not
	7	associated with web perxer some
	.	If address represent mustiple web
		Gernero. FAIL.
1		OCKOO. TO LL.
	\parallel	
	1	2, generate random UP18. How would
gat	11	ioe even start to do that 9-7-121.
	╢	the terms of the second of the
, , i	2	. Dse a Monte Carlo method.
eq 7 1		
	_	Rusmerichientong et al. (2001)
The last		proposed this method for sample
	-r	ig web pages, and Grokgel, al esoog
2:	1	used this method for selecting
		g random example of facebook
1 - ,	ui	sers for en analytis.
11		

it ZPT=P € 100

(X) Accept page pinto the Final Sample with probability B Td CP) cohere o < BZ-minp=1,..., KT b(xp)

This is quite a complicated augorithms Notice again that this process is a Markov chain bran because the page we visit the next depends only on the page we are currently at and no other page.

This is an example of Metropolis -Heatings random walk. While we will discuss this algorithm in class ine will not do anything remotely this complicated! All of this convergence talk many remind you of rea analysis.

To need for real analysis, however , It you like analyois and memc, you could get carried away with theoretical research in this Field.