AMRY B 50 Amry Date:
06 A.
201:
By Markov chain property
P & Dry, Rain, Rain, Dry }
= P (Dry Rain) . P (Rain Rain) . P (Rain Dry) . P. (Dry)
$= (0.7) \cdot (0.3) \cdot (0.2) \cdot (0.6)$
= 0.0252

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		3		A STATE OF THE STA	
	BKA	Discuss the structure of	RBFN and	how it can be	
A 20 10 10 10 10 10 10 10 10 10 10 10 10 10	40.11	Diacuss the second	soonable pa	ttern. games	
-	^	used to solve non-linearly	The second secon	A STATE OF THE PARTY OF THE PAR	
	Ans:		Marian and the same of the sam	Non-Garden and Control Control of the State	
	K	ernel:	6 6 3		
	_	A kernel is a similarity func	tion.		
	_	Some algorithms use a set	of mathema	atical functions.	
		that are defined as the kerne			
	-	The function of the Kernel is	s to take d	ata as input	
- The function of the Kernel is to take data as input and transform it into required form					
	-	It is a function provided to	a machine	learning algorithm	
	- 6	Example: Linear, Non-linear, Po	lynomial Radi	al basis function	
_				1. 7 1 7	
Classifying non-linearly separable data:					
	<u> </u>	To predict if a dog is a f	sasticular pr	eed we load	
	,	millions of dog's information	like type he	eight, skin Colori	
	2	In machine learning language	there prop	erties are	
		referred as features.	2.9 / 12/00	of lottini	
	3	A single entry of these lists	s of feature	s is a data	
		instance which the collection	of everythin	ng is training	
	e e	data which forms the basis			
_					
_	4	SAW			
				27	
			The and	over Mi 13	
	((-11.12)9-(-12.12)9	= 12,3	18 18)9	
1	(5)	The hyperplane of a two dir	mensional sp	ace is a line	
_			,		

dividing the red and blue balls.

(all breeds of dog) + features (skin color, health)

I learning algorithm

Deal Daniel Ram I Row F. (Role | Dr.) . P. (Pole

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If we want to solve following enample in linear manner				
it is not possible to separate by straight line.				
with the same will and the same of the sam				
granted in the antiquest and and white the following remail in				
perpendition, within pateriors allowing his ordered out				
golder van transfer to a sola of the				
in relation political print in the true had not in				
(ACI) Trestant than more to answer to				
frederication in addressmen would be rout a 12 1911 -				
a In machine learning "kernel" is usually used to refer to				
the kernel trick, a method of using a linear classifier				
to solve a non-linear problem.				
B) It entails transforming linearly inseparable data like				
linearly separable ones.				
(C) The kernels' function is what is applied on each data				
instance to map the original non-linear observation				
into a higher dimensional space in which they become				
esseparable is pour de la				
1 Using dog example, instead of defining a slew of features				
you define a single kernel function to compute similarity				
between breeds of dog.				
e You provide this to kernel, together with data and				
labels to the learning algorithm and outcomes a				
classifier.				
(f) Mathematical Function: k(n,y) = < f(oi), f(y) >				
Ka= 1 Kernel to function but and ANY				
x y are n dimensional inputs				
- I is a map from n dimensional to m-dimensional				
space (usually m>n).				

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Q6BI PCA 11 1CA	month soft references with the complete and guide place is advantable and all the first references and
Principal Component Analysis	Independent Component Analysis
THE POLICE OF THE PROPERTY OF	
1) It reduces the dimensions to	1) It decompose the mixed
avoid the boopsen of	signal into 1ts independent
overfitting	sources signal
1) It deals with principal	2) It deals with independent
Component.	component «
(3) It focuses on maximizing	@ Ib doesn't focus on
Variance	the issue of variance
	among the data points
4) It focuses on instral	(B) Ib does not focus
Drthogonality property of	on the murial
principal components	ormogenality of components
E) Il goer not to can on	(5) It focus on mutual
onutual independence of	independence of component
component	