PARSHWANATH CHARITABLE TRUST'S



A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science



Semester :	Subject :	Academic Year: 20 - 20
	[ICE - CREAM PROBLEM	
000	Hot 0-3 > Cold	0 4 0 0 4 0
Som	e person is sitting insi	de the home. He
is not	able to Edentify cost	rether it is
is .	(some person) John obs eating (1), (2) out	3 iceream per
to 1	day. On this observ	not / cold outside.



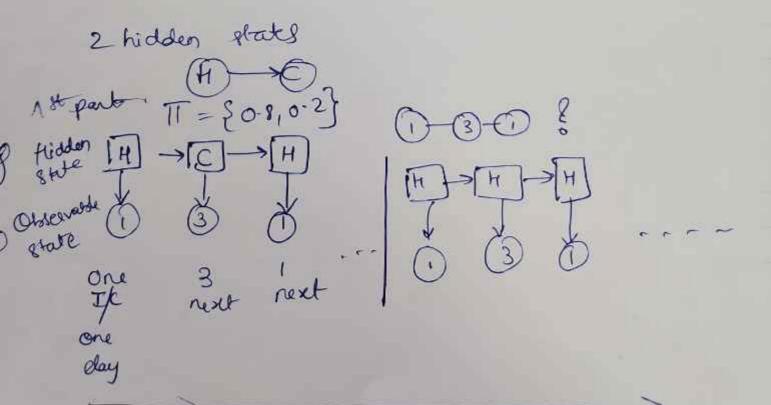
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		Transition	Madeis	futar state
		Hot	cold	Perant since
1	Het	0.7	0-3	= 1
	Cold	06	0.4	= 1
urrent		*		

	Emissi	on Ha	Hadrise	
11	0	2	3	
Hot	0-2	04	04	
cold	0.5	04	0.1	



combinations



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Ser	nester: Subject: Academic Year: 20 - 20
HCC -	N = No of moder state = 2 T = Given no. of observation = 3
HCH HCC-	$M = N^T = 2^3 = 8$ combinations
CCH	Join probability $P(a,b) = P(a b) *P(b)$
	P(1,H)=P(1 H) P(H)
lormation) with	P(0,9) = P(019) P(9)
	P(1,3,1,4, 00,4) = P(1H) P(81c) P(1H) En
Wester	P(H) P(C/H) P(HIC) From That
(0)=0.5 (0)=0.8	= 0.2×0.1×0.2×
	0.8 × 0.3 × 0.6
	0.000576
	= Oceaning x =>P1
Subject I	ncharge : Page No Department of CSE-Data Science APSIT





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P. Pe P3 Ph PS PE PT P8-

determines Max (P, ,.... Ps) = what hidden sequence would be there.