

Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

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Class:	TE	Semester:	geografier	
Course Code:	Marie de la company de la comp	Course Name:	AI	

Name of Student:	Saineth Khot
Roll No. :	20
Assignment No.:	5
Title of Assignment:	
Date of Submission:	
Date of Correction:	

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	
Demonstrated Knowledge	3	
Legibility	2	
Total	10	•

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	3-4	1-2
Demonstrated Knowledge Legibility	3	2	1
Legibility	2	1	0

Checked by

Name of Faculty : Signature :

Date :

bag wast airs he white and 6 black while mother buy I wans he whote and I black bulle . One ball is drawn of rendom from one of the bays and it is found to be black. Apply Bays shown & fird the probablity that it is drawn from by I = $P(A/B) = P(B/A) \cdot P(A)$ P(B) Calculate prier probabilie PBI. a P(A.) P(A1) = P(A2) = 1/2 Caballete P(B/A,) and P(B/Az). P(B/A,)= 6/10 = 0.6 P(B/AL) - 3/7 = Calabate total probability P(B) P(B) - P(B/A,) & P(A,) + B(B/Az).P(A) $\frac{1}{2}$ - 36

Sundaram

Apply Days Theorem

Apply Dayesian Belief Network for Find and prob of could fine be cone sore with cough but no bruthing problem. And not for touching problem. C | P(S=T) | P(S=F) T .001 . 999 Touch (old 5010 Could 19 RT PLR + B T P(C=T) P(C=B) -96 1.66 Fem F / 1095 . 04 .69 , 69 0.002 - 9a P(F=7) P(F=F) , 99 0.490 -91 0 · 9 0.5 0-45 me rund to con P(C14 = T/F=7, C=7, B=F, 7=F) By sin Bayer Theorem P((1= 7/F, C, B, 7) -- P(F, C/C1=T). P(C1=T/B,T) P(F, (/B, 7)

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P((19 = 7/B= = 7-F); P((n = 7/1=F B=F) = 0.1 P(F = 7 / (10 = 7)): P(F = 7 / (10 = 7) = 0.9119 53 P((=7/((a=F)-P((=T/(1=7) - 0.94 Sn P(F=T ((1a=F) -P(F=7/(19=F) =0.5 from the CPT for cold su with wast P(C=7 (C19=F)=03 Total Probability -> P(F=7, C=7/B=F, T=F): P(F, C/B = F, T=F) = P(F, C/C19=7). P(C19=7/B=F, T=R) 1 P(F, C/Cig-F) . P ((11 = F/B=F, T=K) Fur (19=7 P(F=7, (-7/C19=7)=P(F=7/(19=7).P(C=7/(19=7) - 0.as +0.44 - 0.893 (Sundaram) FOR EDUCATIONAL USE

P(F=7, C=7/(19=7). P(C19=7)=(0.89).(0.1 0.0893 for Ca=F: P(F=7, (=7/(19=F)=P(F=7/(19=F), P(C=7/(19=F) = (0.5).(03) = 0·1J P((19 = F / B=F, T=F) = 0.9 P(F=T, C=T/(19=F).P((19=F)=(0.15)(0.9) - 0.135

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