

Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

A	Y:	20	124	1-2	5

Class:	BE-AIlps	Semester:	VII
Course Code:		Course Name:	Natural language

Name of Student:	Mokshad	Ketan	Sankhe
Roll No.:	67		
Assignment No.:	2		
Title of Assignment:			
Date of Submission:			
Date of Correction:			

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Demonstrated knowledge	5	
Legibility	3	
Completeness and timely submission	2	
Total	10	

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

Checked by

Name of Faculty	;
Signature	:

Date

:

11	
	NLP Assignment-2
91)	Griven statement:
nate	1) CS> clark kent concels his identity & cls7
	2) <57 Bruce wayne knows his cards <157
Code	3) <57 Diana Prince is saviour of week <157
stra "	Soln:
traids	
	occurance of "knows his'z ail
	Occurance of "knows" > 1
	entrope : e. (in.Lal) to Le 12 (economes
	:. P(his/Knows) = count (Knows his) = 1 count (Knows)
	: of action
	2) DE P(conceals/his):-
	Occurance of his concegls'=0
	occurance of 'his' = 1
	= P 6 11 nos 1331 al.
	-: P(tonceals/his) = 0 = 0.00
	e of had on to retrovale valle was do.
2	3) & (Diana P (Diana Prince):-
	occurance of "Prince Diana": 0
	occurance of 'prince," = 1
ė.	e it tong one shared when the same and
	= P(Diana/ Prina) = 0 = 0.00
	and the good of shared and at the
	4) P(Prince Digna):
	occurance of "Diana Prince"=1
	occurance of "Digna"= 1
	-: P(Prince/Diang) = 1 = 1:00
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Q2)	Deterministic Finite Automata (DFA) for "the" in
	strings
→	and the second of the second o
	-Given: a string containing the anywhere within
	a string of a-z. eg:- "there" but not "those" we
	need to construct a DFA that accepts strings
	containing "the"
	- DFA construction;
	- States: q. (initial), q. q2 q3 (accepting)
	- Alphabets: [a,b,c2]
	· Transitions: (Sugar) Same
	- From 90:
	on 't' + 9 -: (21/2/2000) ? @ 100 (6)
	on any other character -) stay at go.
	- From 91:
	·on 'h' -> 92
	·on 't' -> stay at quelle and
	on any other character - go back to go
	- From 92: -1000101 00000 2 0000000000000000000000
	·un 'e' -> 93 (accepting state)
	·on 't' -) 91 "
	· on any other character -) go back to que
	- From 93:000000000000000000000000000000000000
	on any character - stay at az
	b' h' ie' la la la
	$(q_{10}) \rightarrow (q_{11}) \rightarrow (q_{12}) \rightarrow (q_{13})$
	any other it any other it
	character character characters character
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	- The DFA start at qo, and it transitions to
	93 on upon encountering the sequence the 93
	is the accepting state indicating the presence of
	with this DFA any string containing the will be
	accepted and those without it like "those" will not be accepted.
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