

SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under Section 3 of the UGC Act 1956)

Re-accredited by NAAC with 'A++' Grade | Awarded Category - I by UGC

Verified all entries & found correct Jr. Supervisor's Signature & Date 21/10/24	No. SIU-24 E
Seat No. (in figures) 2 0 4 0 0 4 Seat No. (in words) Two Tesso Facu	er Zero Zero Farer
Programme: MBA - Business Analytical Course: National Language Brocks Main Ans. Script 1 + No. of Supplementary Answer	Semester:
Q.No.	Total Signature of Examine
Marks Marks Obtained	

INSTRUCTIONS

- Mention your details only in the space provided for in the main answer script & the supplement. If any other details (including seat number, name, contact details, etc.) are written anywhere else in the answer script and or supplement it will be treated as adoption of unfair means and the performance will be treated as null and void for the entire examination.
- 2. Write answer in legible hand. Answers written in an illegible and undecipherable hand are liable to be marked as zero.
- An act of copying or of impersonation at an examination is punishable under the Maharashtra Prevention of Malpractices at University, Board and other specified examinations Act 1982.
- Candidates should write answers in BLUE/BLACK ink only. Use of Pencil and other colors
 are permitted only in case of diagrams, graphs etc. Answer Scripts written with pencil or ink
 of other colors will not be evaluated.
- 5. Write on both sides of paper.

7/A	3
400	THE STATE OF LINE STATE
tadas Menter	SIU
1)	human interaction.
- 2)	the har increased the efficiency of customes generics by increasing capabilities of manage lasks
	darks
	Challenges
2	Training of the model on large datasets
2)	Ushdisistanding provided and samatic
	Comments) feel book
(2)	a to a first the application
6	Continental Analysis - Ms is the application
	aires to understand the fentiment!
	produces behind a gold to Resterne phonone
	e.g. "Good Good marning / How one you
	Lig "Good Grood marring ! How are you down of today?"
	This sentince conneys a charaful meaning
	luggesting that the person is to
	wishing the other good morning and asking
	aspect your say.
	Benefits
	V
1)	This is typically very helpful in understanding customer feedback on products If it also extensively used in understanding public approximant on social media platforms like X, to Tostagram, oto
1	customer fusback on products
2/	If is also extensively used in understanding
	public apinion on soual riscus playforms
	and of the state o
	Challenges
0	In Understanding lexical combiguity in phonores
	acronyons og "tykyk stands for "Lyon know you know" which is a common sociastic
	know you know which is a common storcustic
	comment on houal modia platforms.
(2)	Understanding inomical and socialic statements
-	

WAR I	4	
Man Sheart	SIU SILI SILI SIU SIU SIU SIU SIU SIU SIU SIU SIU SI	er sitt
de	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-	follows:	
	Jacobs	
Q3	POS tugaina grelogy to Party of 64	
-	2: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	1 1 2 1 10 days	
	parts of lext to the	
	into smaller units where each	
	word is tagged to a part	
	cef speech iso nown werb adjective	
	etc.	
	It is a pass of Natural language	
	Understanding unit of DNLP and it	
	continue of the modernmany	
	the folkering coays:	
0		
0	It helps in sentence segmentation-	
	i.e; becaking down the sentence	
	into smaller parts for boller understanding	
(2)	It helps in understanding the	
	Cuntactic part of the given text	
	phonone formed, i.P. whether it is!	
	grammatically convect on not.	
	- Grammanian	
(3)	It helps in Stemming and	
0	lemmatization which involves	
	breaking down of	
	il it is similar for this	
	cocerds into its simpler from while	
	netaining context.	C
(4)	It also helps in discourse integration	
	, 1.0; understanding how one sentence	-
-	a later to the cotten in a text	
	relater to the cether in a text	-
	next meeting scheduled	

Fellowing are the limitations of N-gran ocurrence

	A	6 ent SIU SIU SIU S	
	व्यापित वृद्धमानम्।	SIU	sadge abuse.
-	07	1110 1870	
		Sentence Acquiring	
		Sentence requestation Descourse Semoning and temmatization Descourse Analysis, POS Tagging,	
		Prollesis 00 0	28
		, i hovakoviii	- 00
	_0	Soutence Segmentation is used to bevatebourn Soutence Segmentation is used to bevatebourn the fort as paragraph into smaller with	
		of renderies.	
		to the borating	0
	(9)	Tokenization - Refer into smaller	
		Tokenization - Refers to the beneating Tokenization - Refers to the beneating down at a sendence into smaller pards and token for processing the beneating	
		hava to the breaking	
	-	Charing - Referen 10 400 its about	
	- 0	form of a word into the suffixed	
-		from hy funding	190
-		Vand the pregram	
-		Temmalization - Sometimes The world	
]	<u>(y)</u>	lemmalization - Sometimes Lemmalization - Sometimes Context when one it so in	
		Stomming is met dans on it so in	
4		Homering & set office Context, lemonatization which to gretain context are is stone so that words are	
-		is some so its smaller form	-3
-		while retaining the context	
-			
7	(5)	Pos ragging - Refer to the tagging of various parts of speech.	(4)
-		tagging of of varibers parts of speech	0
- [Such as noun, adjudice works on	
		which help in the discusse analysis	
	0	Discourse Analysis is the Step in which	-
		the words are contextualized	0
1		and enertially phrases and lentences	
1 -		are formed which give meaning to	

THE REPORT OF	TU SIU SIU SIU SIU SIU SIU SIU SIU SIU SI
	There debt are oscertial to that the model
	trains well and is able to grass the
	context of the data and procline
	accordingly
	00
02	The components of National Language Processing are to Derical Prolysis
7	Processing are so D Lexical Analysis
	Constant Analysis Comandia Bratis
4	Discourse Analysis Bragnatic Analysis
	0
0	lexical Analysis - This includes the
	analysis of the words when we
	grenognized Iterined dataset) a not; be
-	The model is able to Islognize
	and language or men
(0)	Syntactic Analysis - Refer to the syntax
-6	of the language Head and if words
	in it they follow the grammo
	gules of the language a not.
	0
(3)	Samantic Analysis - Refers to the meaning
	That can be inferred from the
	identified words (if any).
- (y)	Discourse Analysis - This grefers to the
	growth of the state of the stat
	the text if it is being logically sollowed in text with context are
	Selvamed, 1.0, 18x4 with conserver
-	Peraumatic Analysis - This Deefens to
(5)	the analysis of the statements, is
	il they have any hidden meaning an
	Dany disconical, description attenual to To
	Storement etc. 6.5.0

Man Manas.	SID
11)	Markov Model - Markov model is a
	determine or the charies are the model
	determine so the chancerrand of the
-	next would It wants on the model
-	only depends a copan and the
-	harmon that have the or weights an
	only depends of after the current state and not all of the perenious states twoods It anishes weights an the states to determine the authorise
()	Willen as a kast product This wayke on the
	an addition that the exact value can
	an addition that the exact value can
	be calculated based on the probabilities
	of the many hidden states layers in
	my the box ille sel relienting weights
	dynamically to conclude the outcome
010	The challenges of fort processing when
	Chinese an Arabic which have complex
	South include:
0	Texteral Ambiguity - Since there are
	set south which includes characters
	which may have different physicies when
	to coally understand that is difficult
	withen water understand and in
	an agger
(3)	Syntactic Ambiguity - Chinese and Assabice
	- one of languages which have
	characters intend of letter and
	the way of weiting is also different brown feet cach of there. Chinese
	Prom feet oach of ther Chinese Of (left to right) & and Arabic (Inglit)
	1 1-10-18/1/

	and hence it is difficult to
	undorstand their Osyntax
(3)	Semantic Ambiguide - Both Christ
	and Arrabic of rose languages in
	different charactors while writing
	different charactors while witing
	thene as compared to the regular
	characters, there it becomes
_	difficult to understand context in
-	I there languages as their provinciation
	Changes when they are spoken
-	which may change I the meaning
	a Hogother O
	of the Colon to museum three
	thereote Suggestions to concreceme these
	challenger Nave as follows:
0	Extensive training of the model
	on both of the languages to
	underwand their teamberiffs
(2)	Train the model to get accurrenced
	coith the coopus on text
	of the Ranguages to Fremane
	Buy syntactical ambiguity and
	proble character understanding
0	
(3)	Train the model can the
	different characters which
	so that the Smodel can
	so that the Umadel can
	identify these characters early.
	and make sense thereby
	nemouring Comandia ambiguity

2	11
colge bloomis 210	SIU
B2	Commonwel uses of our are as follows:
0	Chathols - Chathols are being weed in curtomor security to experience includered the granding and recture the granding since of queries on Chathols on Banking archives TRETE Swiggy 2 made, at
0	Tool Summarization - Various tools such as Chatapt ote are being was to help in summarizing the took state and in various files and obsuments.
(3)	Visitual Assistants - Such as Alexa Sieri, Coordana, ote- are using NLP to understand the commands of the users and performing tasks accordingly
(y)	Machine Trianslation - Nel also has its application in Machine Toranslation where it is of converding commands gran in human language to prachine language for understanding and satisfiedling the swells and Men again graing genells in human language (g. Google Assistant, Siai
0	Andio to Text conversion - This is being weed to give voice commands to do do search where vaice commands have being converted to text for Jam's search on search engines
	davig search on search engines

	12	•
S2	procuring foring the	nefere to the nefere to the text for understanding populating larving
	Courstancy Parrieg	Dependency Paring
	This is done for processing of the data	generaling on covaling the
	Semantic pant of the data for paning	DA focuses on the syntactic part of the South
3	The steps as a part of Natural Language Understanding	Bleft as a part of Notweal language Cremenotion
	He arms to check for the consistency of logic and wharing of see dotta	Pos the syntax Pand syllables, takens so as 90 move award generation of data.
	Hains to check for discourse analysis on the data	The arms to chether for pragmatic analysis on the data