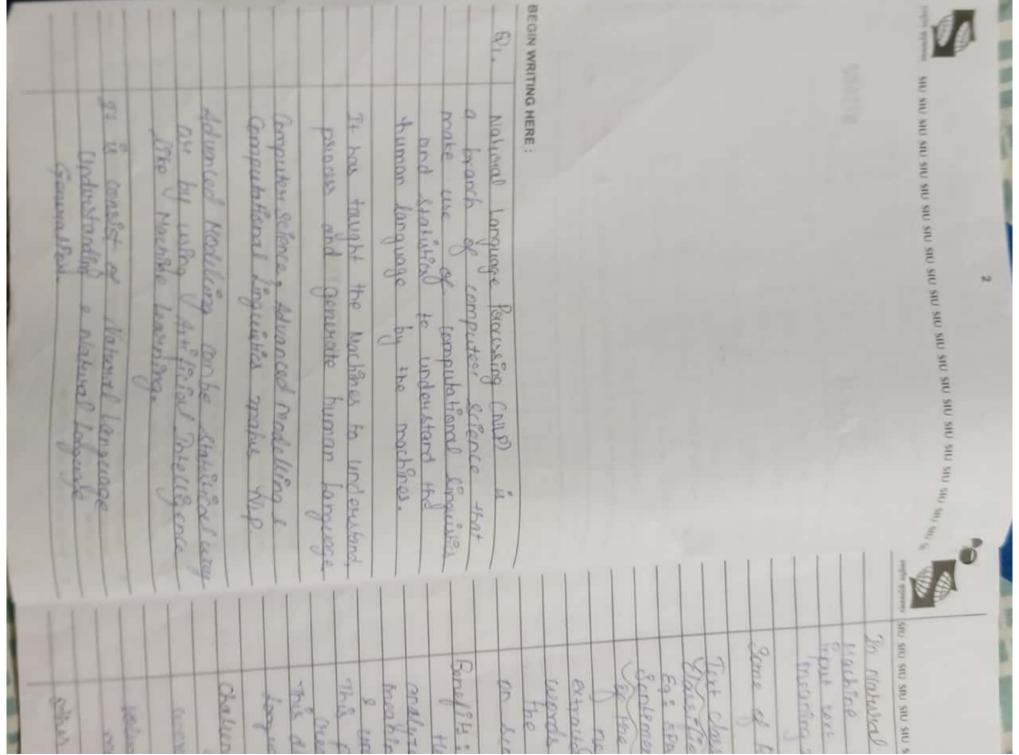


SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY

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

Marks	Marks	Q.No	Main Ans. Script 1 + No. of Supplementary Answer Scripts	Programme: Business Scaliffes	Examination: Day & Date: Tuesday - 22/10/2024	Seat No. (in words) tup Zuno four Zuno Zuno Lever	Seat No. (in figures) 2 0 4 0 0 7	Centre: SCMHRD	Verified all entries & found correct Jr. Supervisor & Signature & Date	
		Total Signature of Examiner	 wer Scripts =Total	Semester:	2110/2024	LUB ZUB LEWIN			No. 075662 SIU-24 E	

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



Challenges: Grands & Ambigusty in Jarguage, some some tourness housing dufferent numbers. A complex languages of communication onall others subjective supects of communication	1 6 6 BB 12 1	Text classification: The shout text is the sentence of sentence of sentence of sentences of sent	Some of Real world Applicablent our su

Motional language Countries to me

TA I	6
safiga kilmania 2	SIU
	Tox such on Speed Josh con
	NIP is used to conversion of
	text of a longueige Into speech
	text of a longueige Porto speces. Using the Probert models of Computer science.
	In Python, the following inbuit torquese models we used for text-speach
	Conurs?on.
	NLTE -> National Longue toolkit
	spacey, Genzam due the other python
	Spacey, Gensom one the other python packages that contains inbut makes
	The broken down text is converted to
-	to audio signals, then parked to
	Speakest for audio audput.
	Application in vote georgneron,
	1010 embled automoutton.
	Twee the human speech is converted
	Twee the tworen speech is converted to digital signal from to text then processed. The commands of votre is then executed.
	Eg: Siri e Alexa.
	Python Pachage Sphinx' ando spech

Downers class Gration: Downers which are collection of fort into separate the masson des Example, content of the document is rated, plagingen check , etc. In plagication checker the woods a sontain Entounce, if it matches then It flags & Classifies as "plagivism detected" Text summovella afion: to form the idea behind the text. will help suduce the long text into Short apospise formal Lep us to label the per generipof text. Significance of POS togging: Pauls of speech tagging used to tag the words to the grammatical Joshs, adjectives, intogections It & a deambiguation Method wed The words and its context exels in the sentence is recognized then ambiguity is cleaved

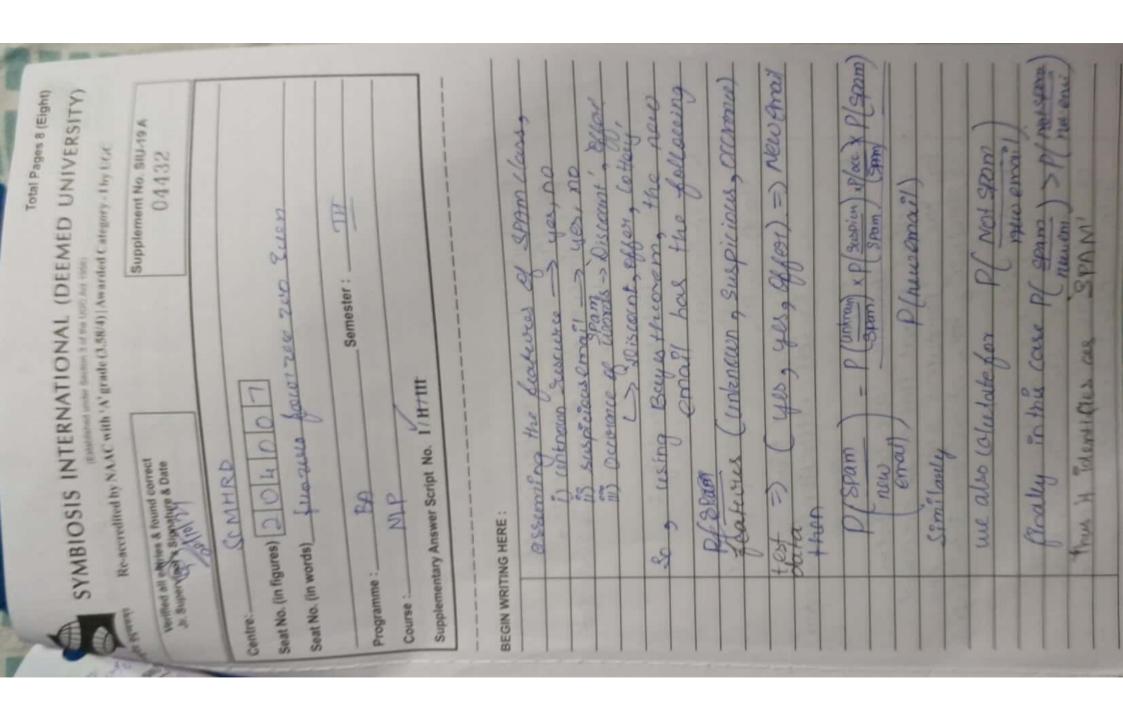
SIU SIU SIU SIU SIU SIU SIU SIII SIII S	SIU
an also	Example: The wint to fly, the a fly!"
document à	fly is considered as a same entity though it has a mountage an insect fly and orthon fly
s found in sontenes	Now when we do POS tagging ving NEP & NITH OX Spacey,
amousisad althe text. cong e format Lelp willpoftext	I - pour. Want - Verib were the to - proposition. Thy 's fry - Verib seperated to leke - with Verib 2 a - Briticles noven
grammatical souns, poinnoiens es, interfections	Thus ambiguity is scertified Dos also helps the data to be applicable for NER (Named entity sucception) Since the Noven fly and Vorb Xly once reparated the NER will be more accurate.
rathed wood major motiguity. xt estate agained then	Example: Mor plant's office is near the thogas plant, where loffice was planted Twee pettiplant = noien biogas plant = noien

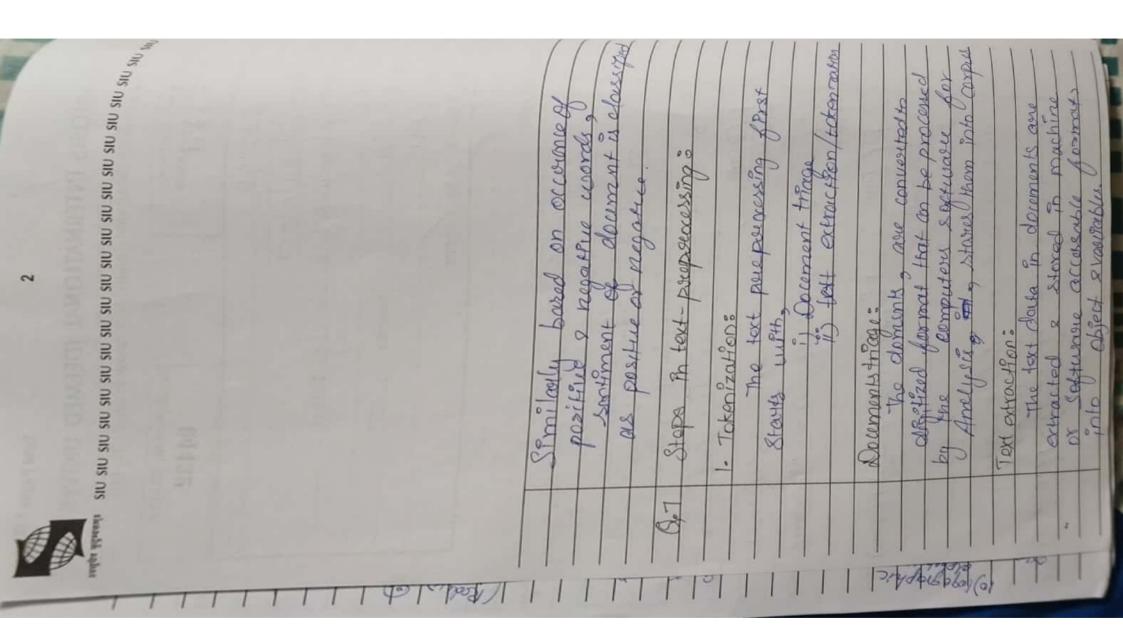
	siu
	pranted - Verb
	HELVE NER since tagged from pos
	Here NER since tagged from pos decognizes Mr. plant as a pame
	Pas also categorizes the word - cword category tagging) used to further syntactic Analysis
	to further syntaltic Analysis
04.	N-grams are sequence of nitems
	such as mordes lettous and base
	pavu from sentences.
	tolen N=1 3 ungrams
	V
	Eg: 'NIP, '15', 'an', "Intousting, Subject -> W
	when N=2, Bigrams
	Twin tomous is a large building. This
	First towers is a large building. The formers was constructed in 19th
<u> </u>	Contevey.
	1600 Turin lowers - bigrams as the
	always expector in a sontence together
	Also, when we drulde the words
	fue or three are more, nigre
	concept is circle.
	for some example: NIP is an interesting subject
	NIP & an interesting subject

refer Sterrol	(1) 1 15, 2011 who distribe the second secon
	(As i an) i (Byguenes (Antonosing, bus, put) ,
	N-graces core under statistical mostling El Acryunga probabling where he next word or against of words cost pand total wing their probabling Of occurring their corner probabling
	13 millions 2 words. 15 millions 2 10 grows conce he applied for huge Galeset on 4 make the computation Mose complex.
	App. seach? The next wood psediction using Organia have unigram, (NLP, is, a good, Subject) unigram.
	psichablity of occasione of NIP given psichablity of occasione of NIP given In Regulate of Sontone 2 (13, agree) Subject)
	Hove one says, the readed than hand governor data it also mates bainess In data as the training trappens due to pressiming of words
100	cannot work on huge volume of datasets

WA.	10	A
ealiga librards	and sid sid sid sid sid sid sid sid sid si	>
-85.	Consistency proving Dependency poursing to	6
	the constituents the selection (or)	
	becom words. among the correla	
	Into in a sentence	
	Very physics subject-very relation	-
	Verb phraises subject-Verb relation	
	A level in National & Used in National	
	Longreage understanding Longreage generation	
	A The tree (phocase to The phycise tree	
	tree) follows Collows bottomip	
	apperoach apperoach	
	flames prior root The flairs from leaves	
	node to Ceaues so sepot node	
	A It follows tree of It follows graph Structure with structure	
-	Strictione with Structure	
-	gleaus. Copes relations.	
_	A Extracts complex of Extracts Simple Enformation & Charleton	
	charectorestics thrus , All page	
	of words, of a morphological & Poper	
-	Rich Morphological Longeges the English	
	longuage of rich	
	Suntactic Structure (hineso' over used.	4
-	A Old traditional Anew Advanced model approved	
	model appreciach (machine Leavining)	+

	11
(III)	
in blanci	SIU
16.	Application of Naive Bryes Classifier:
_	It & Suporuised Marchine leavening
	algorithm of pecobabilistic alassification
	modelling make use of Bry is theorem
	to poledict the classes of tonget
	mare legal in classification.
	mare suiteble in text classification.
	Usage:
	A Narue bayer was in high moras
	dimenteme peatures of clate.
	A Speed of preedection is high
	A predies a predict complex villations
	A feations should not be conditionally
	dependant & data must not
	to the Leatives should be equally
	weighted out given importance
	A & Continous Leatures should be
	normally distributed & discrete features Should be multinomial distributed.
	Should be multinomial distributed.
	Text classification with an example:
	multiple applications include:
	1) Tox Classification 1)
	Descument Classification =
	A content ration
	A Span Detection. A Sentiments Classification.
	12 00 11111 000 000 000 000 000 000 000
	SPAM Detection:
	twee the Native bay is classifies "
-	the new email or sms as a spam'
	on not spam's using training danser -





Sonteng tokentizagen: Senteng tokentizagen: Streed & a fret by becaling decent	Proportonce: Chair fext perpences of Bording Conting Captur also helps to analyze Loutone Loutone Lext perpences of Conting Bording Louton Clise cor evondular +101/25 for flowers to Analysis. Ext Analysis. Extended ours of tentone Pate	2. hommatizaten & Stommog hito, 54. base form that asse oregningful evonds for lemmatization. evonds for lemmatization.	Studying > Stedies the meaningles words Studying > Stedies the complaint of moons Shudying > Stedies the complaint of moons solfflesent to max of words for moods solfflesent to max of words forther.

SIU	8. Stopewords womanded; Reproved Relien woords & Prabability cont words from the down	Importance: Removes words that aberna	functions on also be sumared in Sprillar way	ence taging:	De extracted (leing Nomed entily)	Significane of text preprocessing: Remount Bais & VaryPance Improves portor mone of model	S.S. The main compenents of Mip (NLV) Matural Longuage Condenstraling: The tendenstondle the human language by branking it doesn't to machine Hadabe 2 secret nizable structure.	Thu stage consists of meaning extraction of world	prolog to reported of speech Hage From Speech Members	- Sernowife Analysis was to extract manify
The state of the s				421 1 1				ASPERSON !		

Should be person in some some some some some some some some	1 2 3 3 4 4
---	-------------

The seconds are see see see see see see see see see s
brows probability of Loddonia = Plan
P(w) = P(w, Wat (wa)
Modelling plus, we ton 14 Lorguy
Essing Mostkow, 100
Nowwell Mousical Puthal
done welves Machine Lowering of the grandelling of the proceed of the proceeding the proceeding of the state of the proceeding the state of the proceeding the procedure of the proceeding the procedure of the proce
yen. Chin
Structure (bx) conder of woords
does not change the meaning of
Out of them this owe orthographic
1 spanses

