

## PARSHWANATH CHARITABLE TRUST'S A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science



Semester:Subject:	Academic Year: 20 - 20
what is Pos Tagging?	
of speech.	lespective parts
eg noun, verb, adjecti	ve etc.
John has a small do	9.
Nous vers adjective	noun.
determines	
Here, we will be steging to pu speech / word classes ( the sentence given with that), in the give	e is already
4 Grammatical Analysis, Spell Che	okey.
as Significance of Pos Tagging.	
4 POS used NLP Pipeline, cuso	I'm grammarly
4) POS used NLP Pipeline, cuso that does grammal check &	spell deck

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POS looking for: - (m a sentonce)

- :- John, Car, India, apple, dag, house
  - @ modal rest og: mest, will, would, can,
  - (3) verb eg: run, swim, talk, eat, speak et.

Mary Saw Will Mary Jaw Noun Verb Noun N

- 1) Collect data (habelled Data) .... (here we have
  - 1 Create a lookup truste with the most common part of speech.
    - (3) Tag our farget sentence 4 while going word by word, tag the most common part of speech associated with it
    - (3) Done

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Mary 8de	will			N	1 90 V
			many	1	0
Given: - Jane s	aw	Will	80.W	0	2
noun	velb	noun	Jane	2.	10
V			Will	- 1	0
	Paw	Jana			
noun	Velb	noun			
the most occur each and	ing every	part of word	table, w	e can	egfind
	fre l ing every	part of word		e can	efind
Hary	J			e can	
Hary	Palw	Will			
Hary	Palw	Will			
Hary	raw	Will			
Hary	Palw			e can	ext

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Latelled Data (Our Data!)

Mary will tee Jane noun model verb noun will will see trang neur modal volls naun Jane will see Will now modal vers noun

Lookup Tablo

			1	
	N	1 V	M	
Mary	2	0	0	
see	0	3	0	
Jane	2_	0	0	
will	2_	10	, 3	X

"now"

roun model verb ?? & cookup take 80y 7 85 a model very even though

the context is different

Subject Incharge :	Subject	Incharge:	
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This is becau	use, loc	tup loss	es wont	work
if a single	work ca	an have	y conta	togs -
Therefore, t			3	
	an we co			
One way is	using f	Bigians.		
It takes into	considuation	on how	the word	cray
und , loo	king at 1	the neigh	soul.	
Bi Girang				
For some 6	There & la	uselled d	ald,	
	N-M 1	M-V 1	V-N	
mary-will		0	0	
will-sel	0	3	0	24
	0	0		
will-will		0	0	
&e - mary	0	0		
jone - will		0	0	
que - will	0	0	1	
gel - WIX				

FOCE Data Science



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will see w.00 Mary model velb noun noun

can see will 93) Mary Jane see Hary will Spot Jane spot Mary? Will pat Spot? will Mary

Testdala >>

Jane will

Using Bigrams,

Jone. will

Tane followed by will its cannot be determined using biguan model. Hence the question wont be solved by

bigram model.

. Hidden Markov Model comes into picture.