



A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science



Semester: Subject: Academic Year: 20 - 20
Context Free Grammas (CFG)
In a language, when there are well formed
sentences the tules behind making these sentences
Grammar). / On the sule list is called CFG
Left to right then on the
xd S L.H.S. ⇒ Syntactic Category
R-H-S > has alternative component
parts defined.
It has 3 major things :-
i) Constituency
ii) Grammatical relations
(Constituencies.
If One word prone worth, tohaves multiple words
behaves like one funit on one phrase, then
it is called to be constituent.

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gas - noun phase. Russian Hill -> noun phrase.

(ii) Grammatical relations is it is used to find out subject to object in a relation sentence.

I she ate a mammoth breakfast Object. Subject

iii) subcategorizations & relations -s words or persons are referred with

of Infinitive phrase / Verb phrase is needed,

Nother is needed

Illoant a flight to I find (to By to)

Infinitive ph. legs. Manni



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-> Here	one words depends on a	nother,
Word	I should fit in the sent	ence otherwise
they	one words depends on a should fit in the sent count be grammatically	convect.
U		
Us CFG	is a backbone of synta	×
٨	Junetical.	
Const	rect a parge tree for	the following
Sentence	e using CFG reales:	
" The	man read this book"	
Rules	1 :- S -> NP VP	
	S & AUX NP UP	
8 > V	P NP > Det NOM	
	> Noun UP -> Verb N	IP .
	> Noun NOM	
not.	1. A 1 10:0 1 0: (tha	
Nous	A A	1 man
100 CUS	> bad 1 0 1 1 200	
vers	5 OOK I Include I rec	0.
Aux	> does	

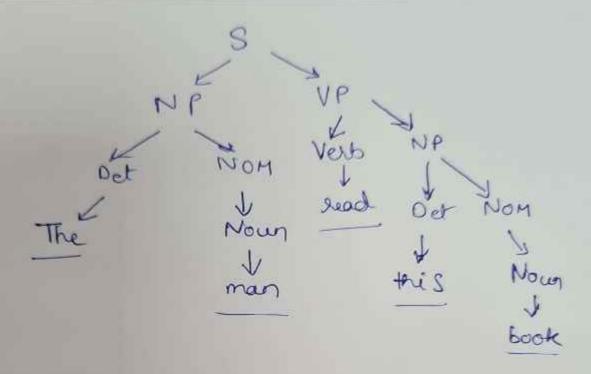
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Note: - It may happen that Jules can be wrongly utilized & we need to backhacking backhacking so then backhacking can also be done.