NLP - MODULE 2 - CHAPTER 2	Regular Expression	Finite State Franchuser	N-Gram , continuous sequence of n-items
Word level Analysis	language used for specifying text	- finite State nauline with 2 tapes	from a given hample of the
Morphology Analysis	scarch string as regen	(i/p tape & oTp tap) whike	ifere can be letter, words, paragraphs
de la la la man words are	Finite Automata / Finite State	FSA which only has one tape	- collected from text or speech corpus
- study of the way words are formed from morphemes	finite Automatic ,	- Fs A represents a set of strings	- Collect as Provi
- morphemes -> smaller / minimal	Automata - represented by 5-tuple (9.5,8.9.,1	) -Ex: ( walk, walks, walked)	
N -	Q= finite set of states	- FST represents a set of pair of	N-tram language Model
meaning - bearing units - moiph > form/shape	E= finite set of symbols	strings (i/p, o/p pairs)	-predicts probability of given N- Gram
ology -> study of	S = Transition Func	multi-function device	within any sequence of words in the
	Qo- Initial State	-1-4-41	language - a good N-Gram Model can predict the next word in the sentence
Class of Morphemes	t = Final State	I one ching on the tape	the next word in the sentence
- stem affixes ex:  [root word] -> prefix  -> infix  -> suffix hiller	Types of Finite Automore	outputs another strong	- Ex: Unigram: {"My", Name ", is", "filly"}
most word → prefix payers by	- Deterministic FA (DTA)		Unigram ! 119
→ Enttix   Miles	-8: Q × ≥ > Q	takes a pair of string as 2 tapes takes a pair of string as 2 tapes takens or rejust based on their matching	Rigram: ("My name", "Name is", "is Filly ")
Types of Word Formation	- DFA can be represented by diagraphs	2) Generator:	N- Gran For spaling Correction
1) Inflection	(state diagrams)	- out outs a pair of smugs on two	- N- bran is without a dictionary >
2) Derivation	-Non Deterministic FA (NDFA)	taped along with yes or No result based on their matching.	this way employes to knot in which position in the correct word
3) Compounding	$-\delta: \forall x \leq \rightarrow 2^{q}$	h) Kelator:	the error occurred.
		-computes the relationship between 2 sets of strings available on 2 tapes	. If there is a special way to change
the state of the s	Of the second		incorrect word so that it contains only
	* •	- FST properties	correct N-Grams, there is as corrections
		1) union 2) inversion 3) composition	
Inflection	Denivation	Stemming	Lemmatization
- morphological proces that adopts	- concerned with the way morphemes are connected to existing lexical	- Faster because it chops words without	
existing words so they function effectively in sentences without changing pos	forms as affixed	knowing the contect in which the	. Slower as compared to stemming but if knows the context of word
of but morphema		word is given	before proceeding
- they close off the word , ea : plays	- they never close off the word, ex: playful	- Pule Board Annual	
- & in dictionary	- E in dictionary		- Dictionary Based Approach
- I dwant to syntax	-irrelevant to syntax	- Accuracy is less	- Accuracy is more
- obligatory	- optional		
- express some concept as base	- express a new concept	- When we convert any word into root	- Always give dictionary measing word while converting into root form
sonantially regular		form, then stemming may create	word while converting into root form
- suprassed dosed to the root.	- semantically irregular	The said of works	
	- expressed at the node of word,	- It is preferred when meaning of word -	is important for analysis Ex: QA
of base	- meanings are relevant to meaning of base	is not important for analysis	Milhoritadi Jos avaranti Fx: QV
- expres abstract meaning.	- meanings are relatively concrete	-Ex: "studies" ⇒ studi"	-Ex: "ctudies" => "study"
A transfer of the second	The state of the s		
can only be suffix or sinfix	- can be profes and suffer		
and not prefix	_ ec:		
(at + 5 = Cats	danger + ous = dangerous		
N N	V		
	N AAJ.		
	아이 내려면 수 없는 사람이 되고 있었다.		
and a conductor of the	and event and it is a line of the second of		