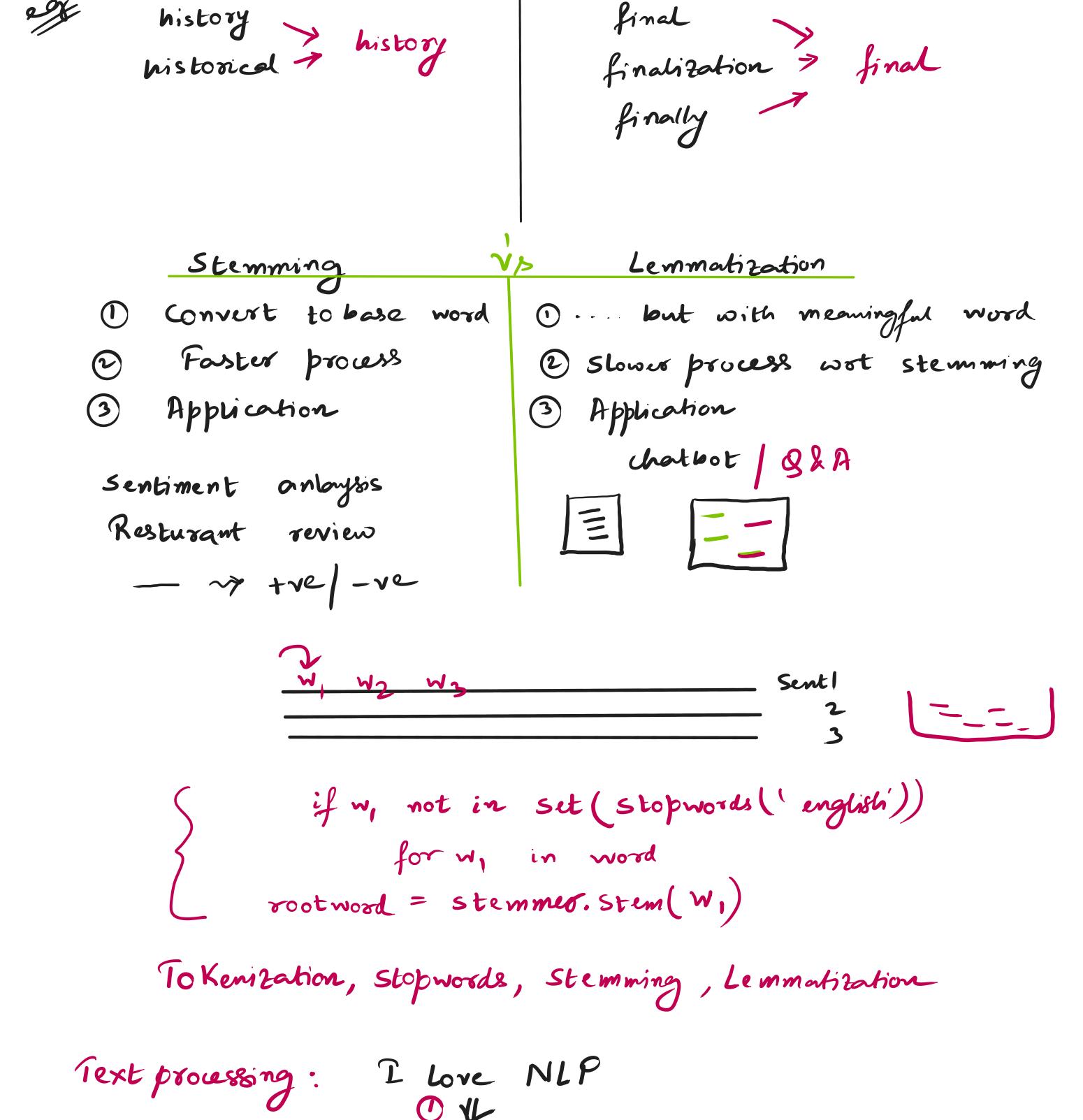
## Day 2, 10 Dec 2023 Natural Language Processing (NLP) -by mentor Dr. Ayan Debnath, 11T Delhi + Harvard Alumni Recap (1) What is NLP 2) NLP > application 3 Roadmap (4) Level -1 To Kenization terminology books, websites different Coopus - paragraph = Document - Sentences = vocubulary - unique words Words to Kenization > splitting text into smaller chunks/parts paragraph > 1 sent1. sent2.... "I Love NLP. It is very interesting topic..." Sentence Tokenization paragrafan -> sentences word Tokenization sentence > I Love NLP Sentence to words Why Tokenization is needed? easy computation easy processing Stopwords I am a boy and I love to eat chicken > boy love eat chicken Q) why we remove stopwords? easy Computation, faster processing, Redundant text 7 no. --- > Computation resource 1 Stemming -> Process of converting infected word to stem/base word historical historical Stem word base wood 3 final finalization finally Lemmatization > Convert the word to base word with some meaning to it.



```
representation
Bows, TFIDF
  Bog of words (BOW)
```

test

Sent1: He is intelligent boy sent 2: She is intelligent grid

sents: Both of them are intelligent boy and girl