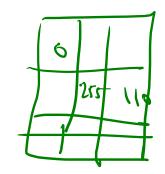
-> Class 8+ant nt 9:05 pm

- > NLP (Natural language Processing)

  Extract information from text

  and take actions on it
  - Convert Aext into numerical Value and convey all the meaning in sentence
- -> Understand the meaning of text



Sentiment

Yhe food is very good the tre

2) Completely lacking in good taste -ve

good service

## Applications of NLP

- > Thanslation:
- -> Chatbot
- nenerate a summanized neview
- -> Sentinent analysis
- 7 Q L A

## Syllabus

- Intro to NLP & Preprocessing,
  Frieding, Bow, TF-IPF
- -) Word Embedding -> CBOW, Skip Gram
- Janguage Modelling
- > RNN LSTM, GRU
- > NER
- J Transformer, Attention, BERT

Problem -> Given the Corona - tweet Classify the sentiment. X-features Sentiment 1/0

Preprocessing technique Sentiment Sentiment chan -> Removal of special character Ticket > Figinering -> Removal of stopword Granary weld word in any language Ly a, an, the and Conpus: A large of structured collection of text document. Can be book, anticle, collection of Social media port.

Document: Collection of large document is

Tweets Pocz Oocz Oocz Oocz Oocz Oocz

Vocabulary S A set of unique words in conpus I the movie is amozing. I watched it today

2 I watched the movie Spiderman

Vocabulary = Sthe movie, is amazing, I watched
it, Spiderman ?

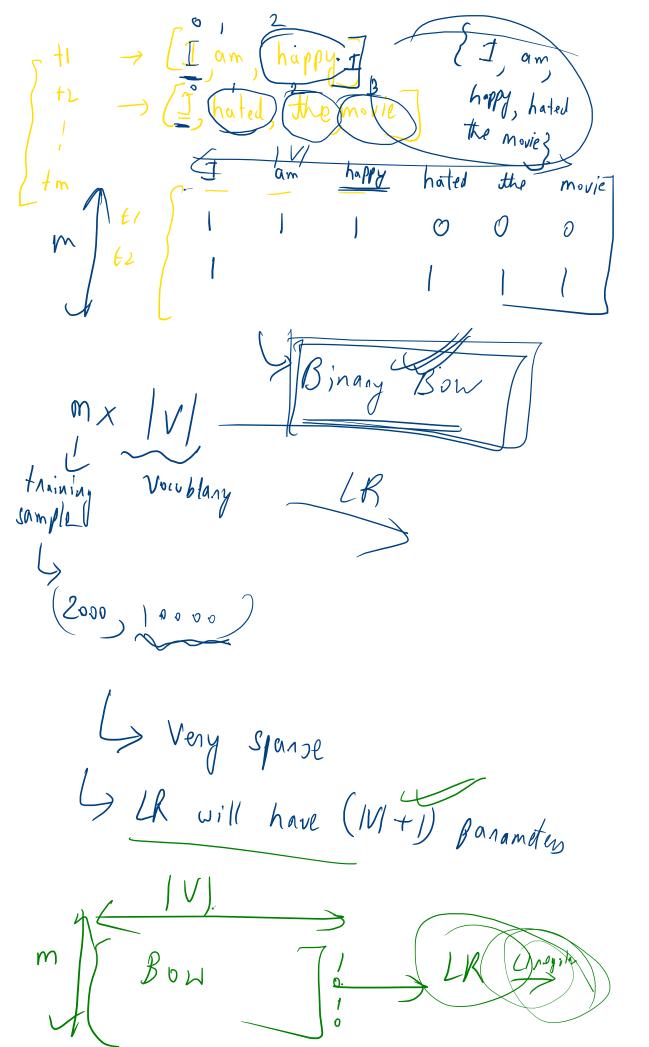
okenization Ly Broaking text into smaller units called to ken Word -> Ethe, movie, is amazing

I wtaked, it, today) A Suhwand

Break until 10:10pm

Stemming 4 lemmatization > Helps in conveting word into their huse form Eq: having, had hun, running, nan -> Aun Stemming Lem matization history history history - histon historical historical .> May not be -> Understood by human Understood by human -> Works by cutting -> Considers the confect begin on end of and Convert into more Meaning full Word

- 1. Parpaces
- 2. Tokenize 3. Stem 4 /enim



we neduce dimension?

