

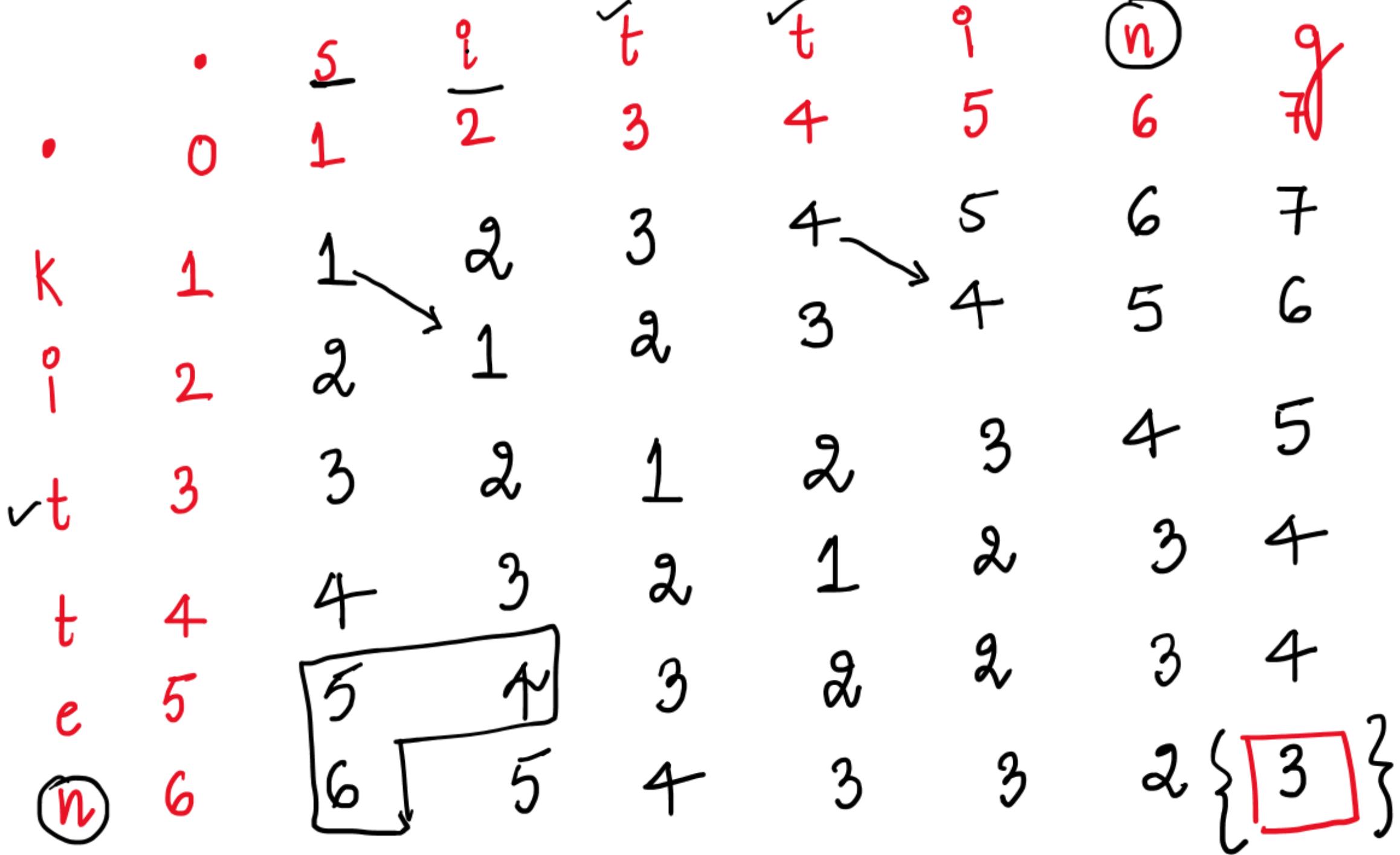
→ Edit Distance :- (Spell correct | String similarity)

kitten → sitting

. s i t t i n g
.

if $r == c$:
ele = diagonal

else: ($r > c$) \Rightarrow
ele = min (all) + 1
 $0 + 1 = 1$



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① (Substitution)

No (

Max

No

No

② (Substitution)

3

(Insertion)

No (eating | sitting)

$\leftarrow \{ \checkmark p(\text{kitten} | \text{sitting}) \underline{\text{sitting}}$

No

```
graph TD; A[3 operations] --> B[3 sitting]; A --> C[3 eating]; A --> D[3 kitten]
```

A hierarchical tree diagram. The root node is "3 operations". It branches into three nodes: "3 sitting", "3 eating", and "3 kitten". The "3 sitting" node has a red double underline. The "3 kitten" node is enclosed in a curly brace.

(i) closeness (Edit dist)

(2) Word frequency

→ Probabilistic Approach:

C → correct word
w

* Bayes theorem: (Conditional Prob)

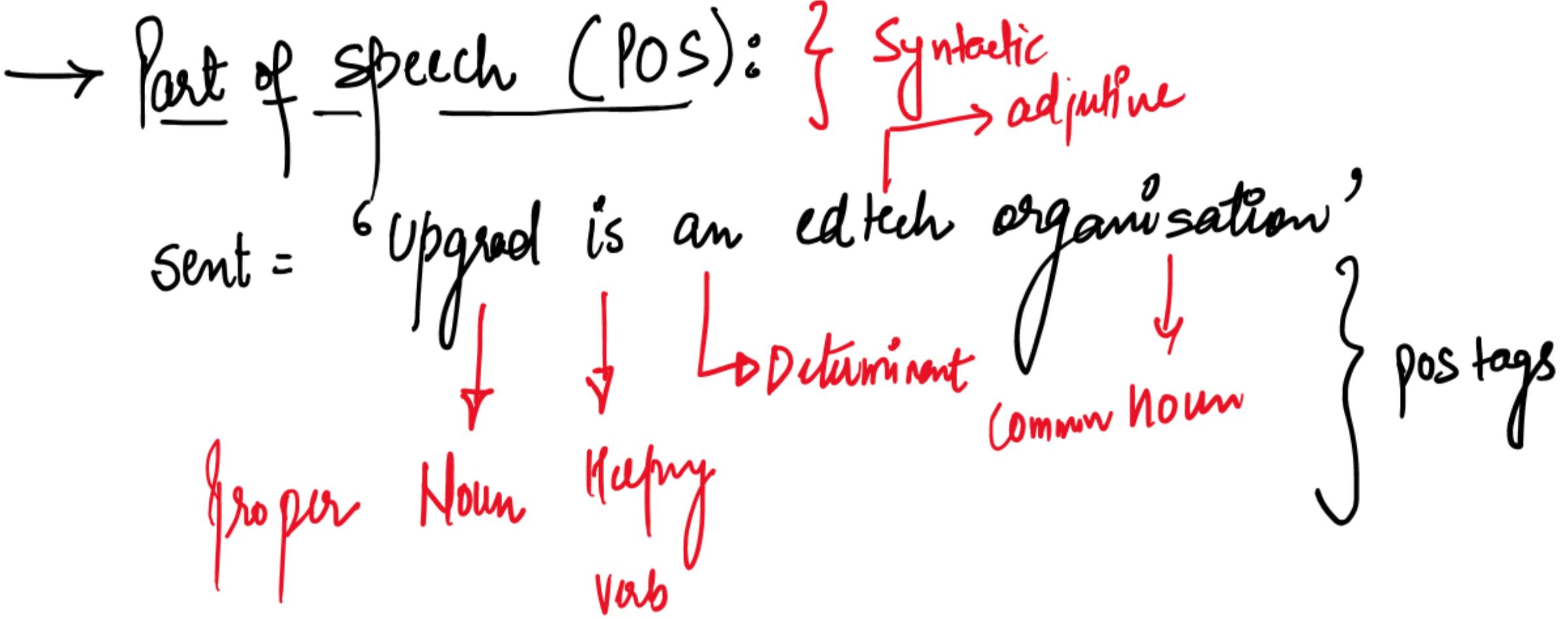
$$P(A|B) = P(C|W) = \frac{P(W|C) \times P(C)}{P(W)}$$

$$P_1 = P(\text{eating} | \text{sitting})$$

$$P_2 = P(\text{kitten} | \text{sitting})$$

$$P_n = P(n | \text{sitting})$$

→ final word is with max prob.



* We do have pre-trained model for POS & NER

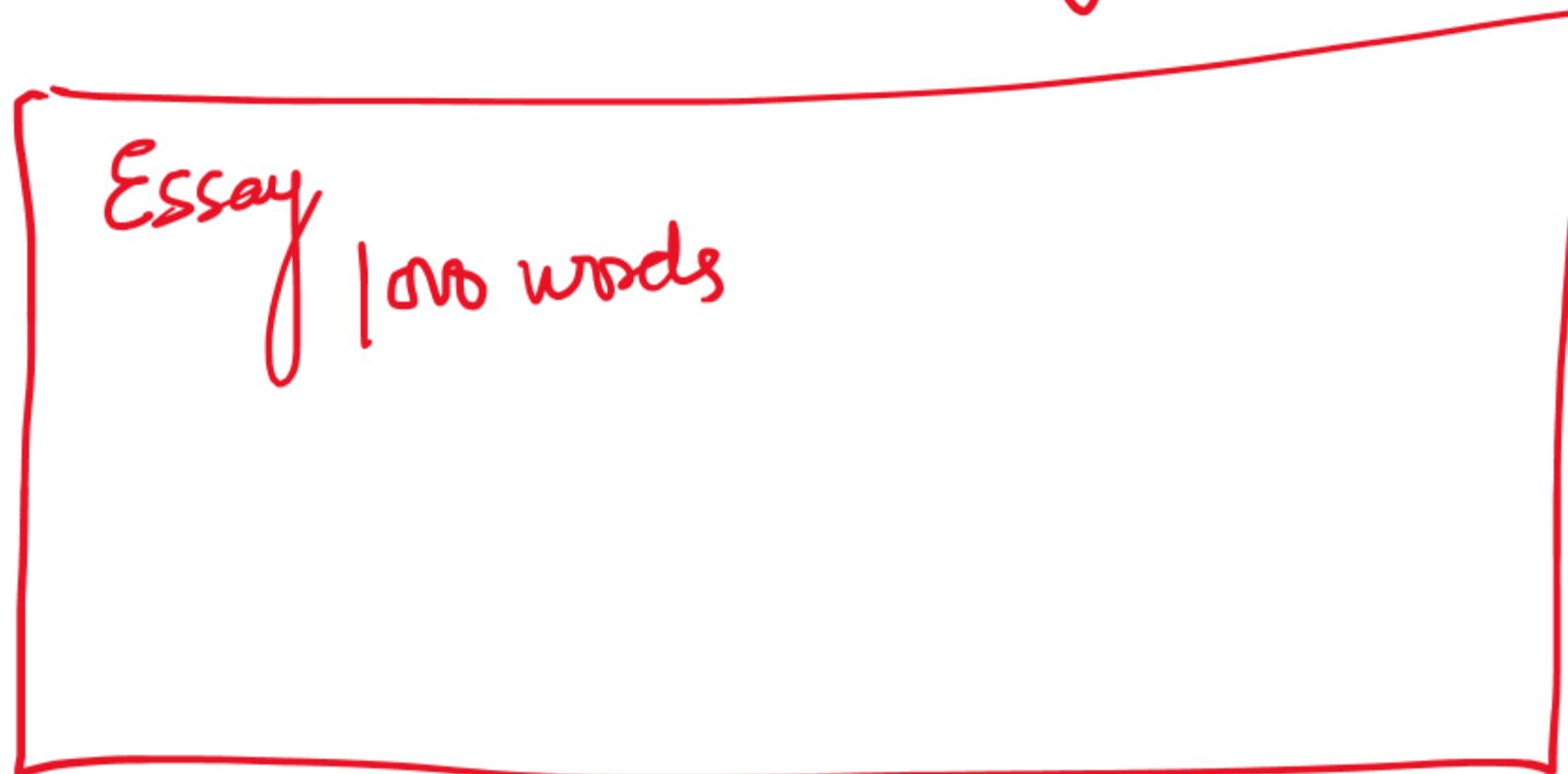
→ NER_tags: Named entity Recognition

↓
further classificat^{ion} of noun

text → Solⁿ → text with
mark names

- Name of person → Name of medicine like
- Name of org
- Name of city

text → pos tag → filter nouns → NER



Name of person



String replacement



XXX

Topic modelling

Text Summarised
(Initial version)

Dependency tags

Essay



POS tag



filter Nouns → frequency distribution ✓

{ USA 10
Politics 4
Barack Obama 2 }

