

→ Edit Distance:- (Spelling correction / String similarity)

kitten → sitting

. s i t t i n g

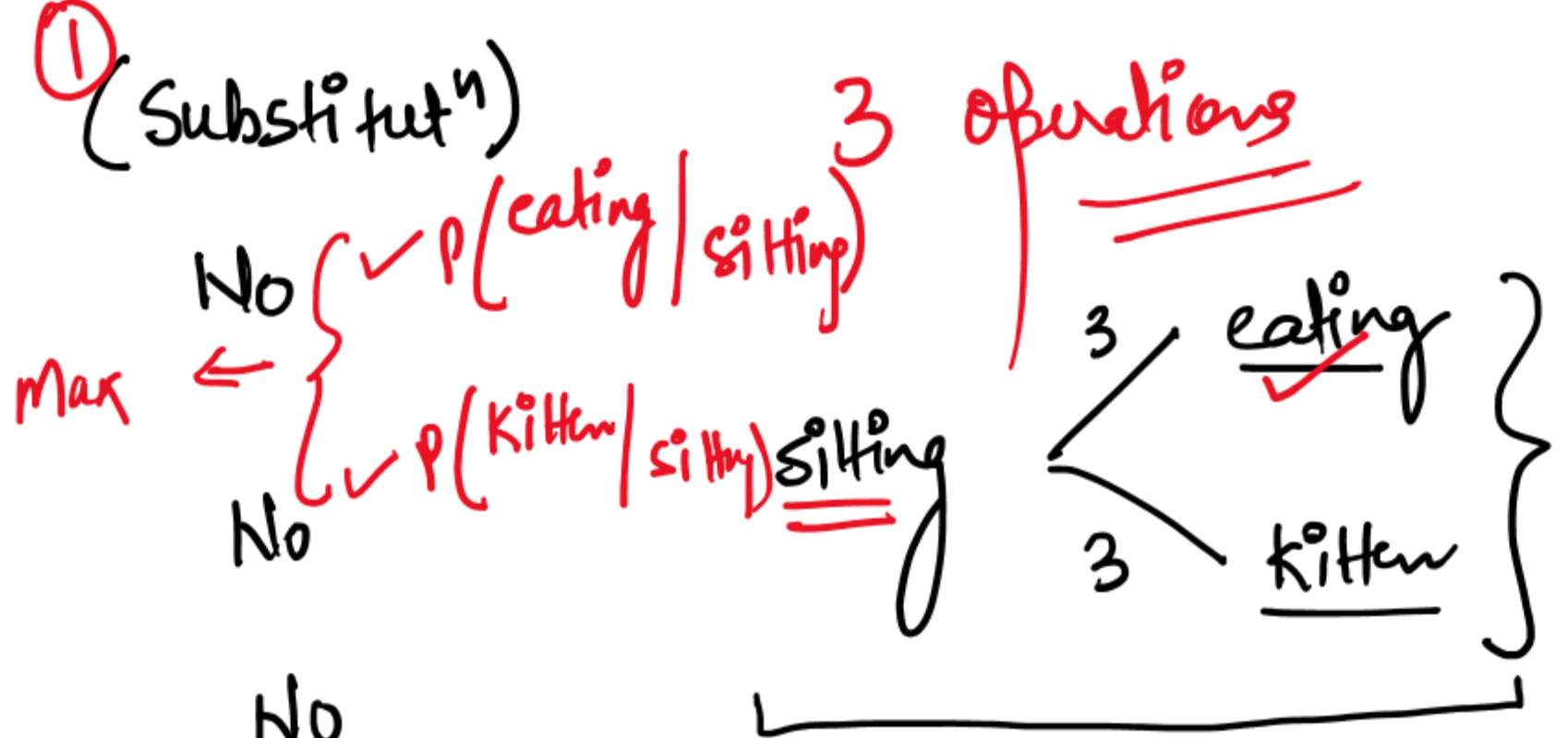
.

if $r == c$:
 $ele = diagonal$

else: ($r \neq c$) ✓
 $ele = \min(all) + 1$
 $0 + 1 = 1$

	•	<u>5</u>	<u>1</u>	<u>t</u>	<u>t</u>	<u>1</u>	<u>n</u>	<u>9</u>
	0	1	2	3	4	5	6	7
k	1	1	2	3	4	5	6	7
i	2	2	1	2	3	4	5	6
t	3	3	2	1	2	3	4	5
t	4	4	3	2	1	2	3	4
e	5	5	4	3	2	2	3	4
n	6	6	5	4	3	3	2	{ 3 }

s k ✓
 i i
 t t
 t t
 i e
 n n
 g -



② (Substitution)

③ (Insertion)

- ① closeness (Edit distance)
- ② word frequency

→ Probabilistic Approach: C → count word
w

* Bayes theorem: (Conditional prob)

$$P(A/B) = P(C/w) = \frac{\{P(w|c)\} \times P(c)}{P(w)}$$

frequency

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

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

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

→ final word is with max prob.

→ Part of speech (POS): { Syntactic
→ adjective

Sent = 'Upgrad is an edtech organisation'

↓ ↓ ↓ ↓

proper Noun Helping Verb Determinant Common Noun

} pos tags

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

→ NER-tags: Named entity Recognition

further classificat^on of noun

text → solⁿ → text with
mark names

— Name of person → Name of medicine etc etc
— Name of org
→ Name of city

text → pos tag → filter nouns → NER

Essay 100 words

Name of person

String replacement

XXX

Topic modelling
Text Summarisation
(initial version)

Dependency tags

Essay ✓



POS tag ✓



filter Nouns ✓



frequency distribution ✓

USA	10
politics	4
Barack Obama	2

Top 5 hours

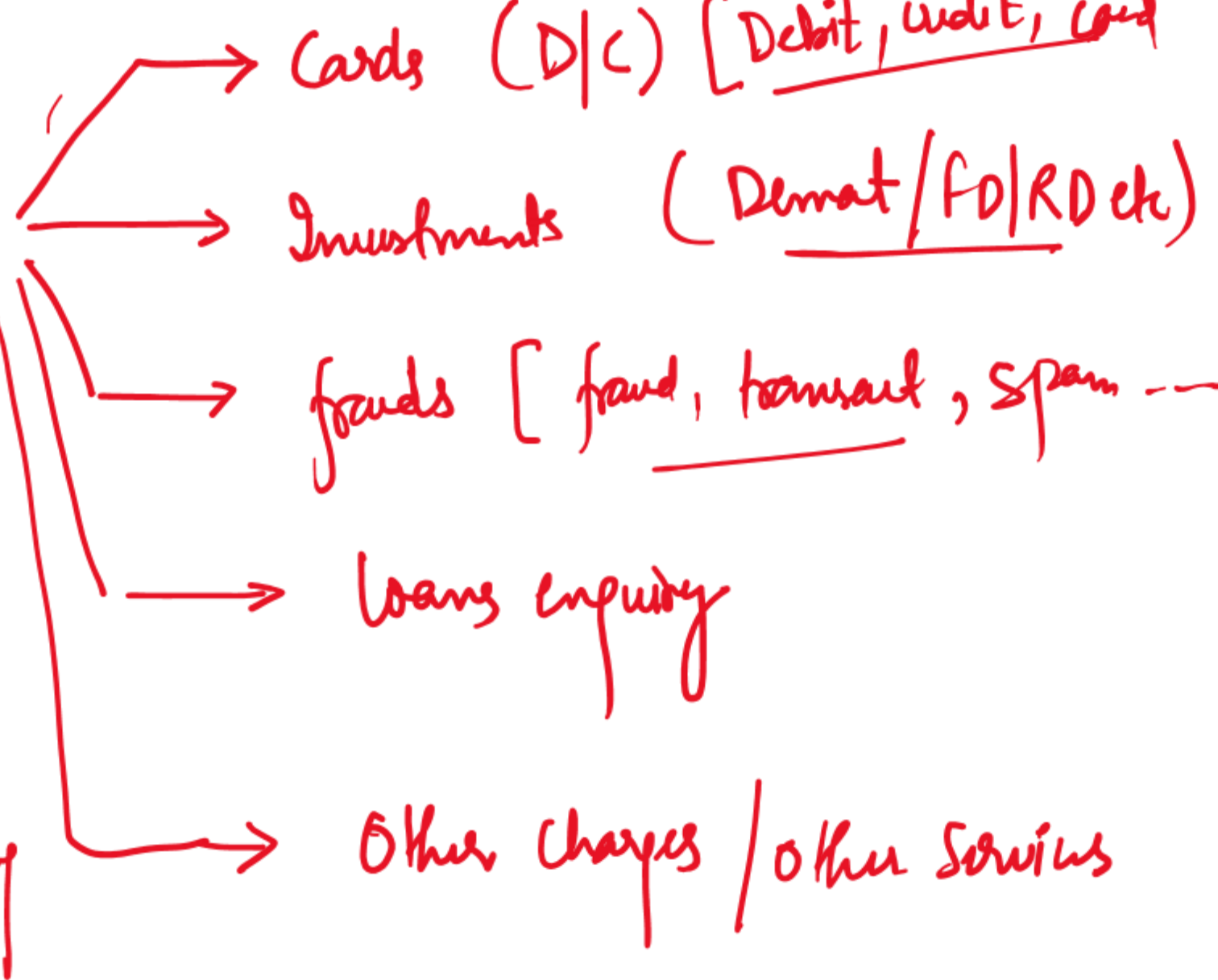
Thousands
of
email

Email
(Problem)



{ text classifier

{ Topic modeling



SEO

Request
→ tags → MLP