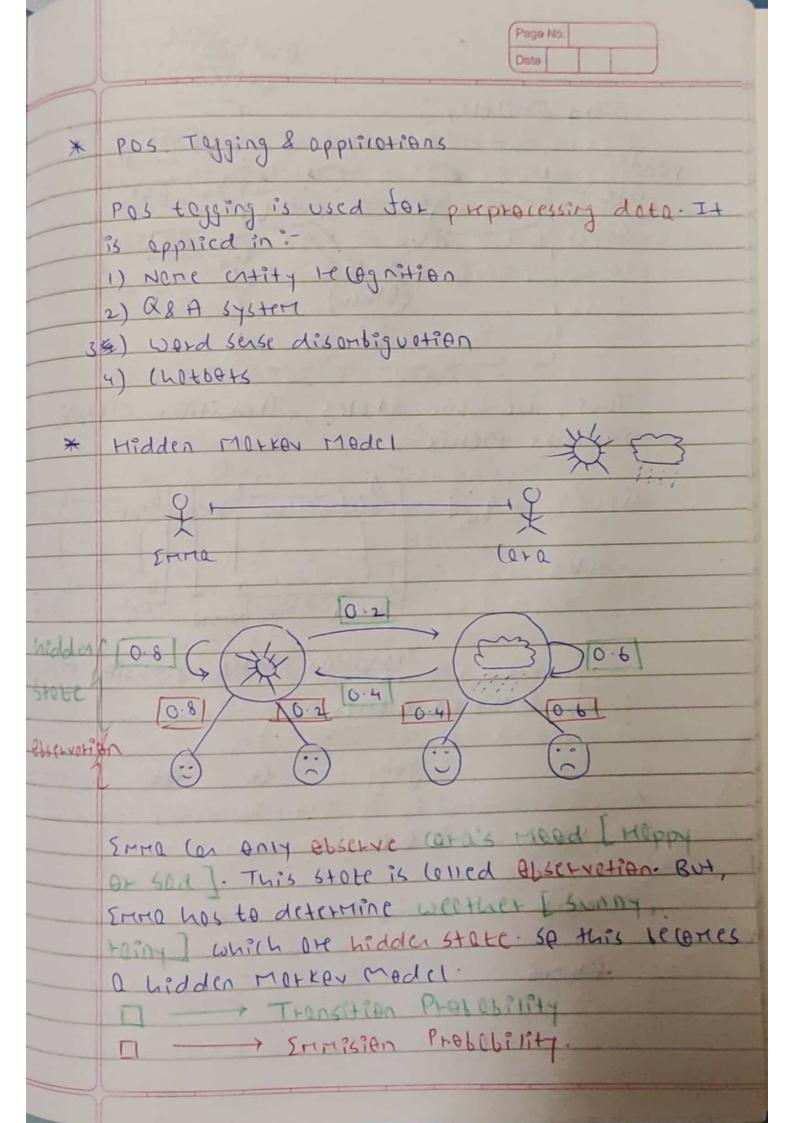
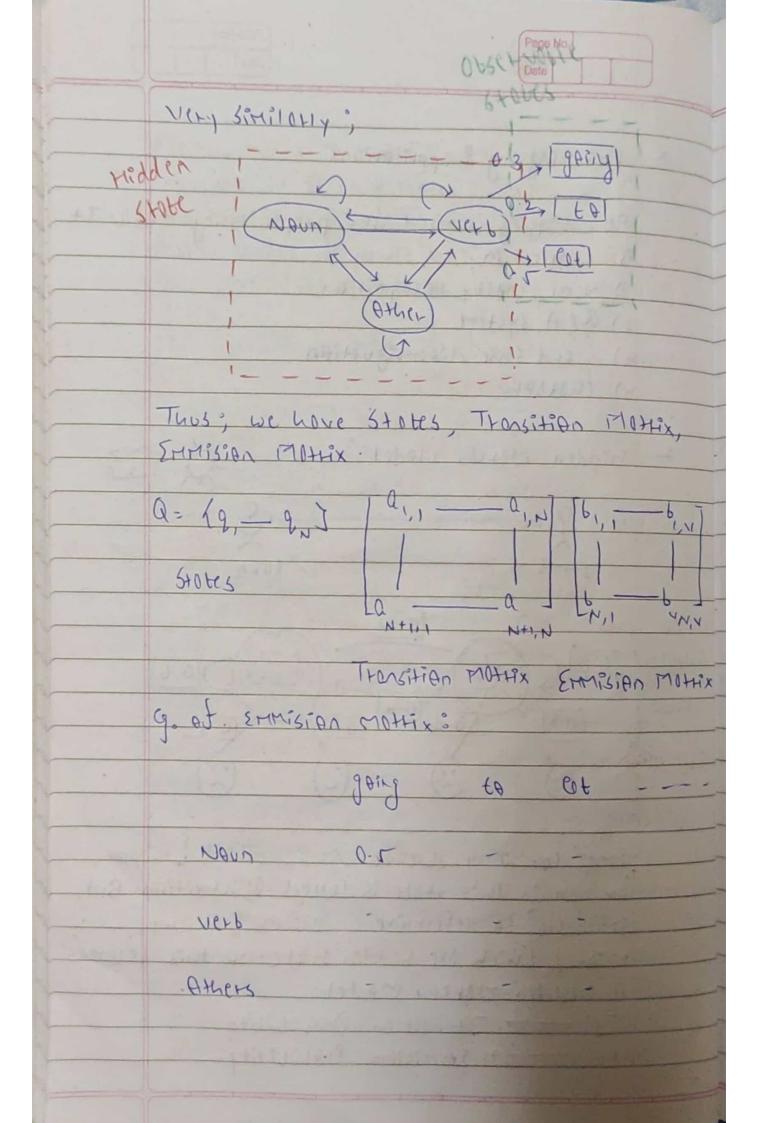
The moin objective is to identify which granmeting to constant the word belong to go Thwortery my plans?

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The moin objective is to identify which granmoting to constant the world belong to go Theorem of the promotion of the constant of the cons





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The idea is; imagine (ata: (3): On the bosis of observation, we may conside: If (3).

But it is not very sikely for next day to be roiny if today is sunny. Thus, we need to use both Transition Matrix and smarsion

Part 1: filling the probabilities.

For tronsmission Metrix, we need to lookup dotal find freq. . Then occordingly, we convert it to probability.

The tow wise addition should be 1:

Similarly, Jor Smisian Mothix;

 $5 \rightarrow H$ 8 $\frac{8}{10}$ HOPP 50d $5 \rightarrow 50d$ 2 $\frac{2}{10}$ 5 $\boxed{0.8}$ 0.1 $R \rightarrow H$ 2 $\frac{2}{15}$ R $\boxed{0.4}$ 0.61

The HAW wise addition Should be 1.

Part 2: Finding Start probability, P.C.
Ord doesn't tell as sid its happy I sad Mood.
water and with the water to the first of the
Apptaca 1: 100x at data, if there are
10 surry days & 5 torny days, we conclude
That 10/15 5) 6/15 = 1/3
= 13
an allegated and a set of the state of the s
Approach 2: From Honsetian probability
0.)
08 (1)
0.8 (1) 20.6
0.4
S=0.85+0.4R R=0.25+0.6R 2150; S+R=1 (ex+ra _{eq} n) Johnsoner Johns
R = 0.25 + 0.6 R 40000 to
2150; 5+R=1 (extra egn)
Part 3: Finding it it sunny at toiny given
COTO tells she is happy Or sod.
Mere, we use Boyes Theren.

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Port 4: If lete soys, she is Happy-sed, find

SPALC We DIE tolking about 2 days; there are

			>
5-5			R-R
11 /	5-R	8-5	
И 5	H	-	
08/ 08/0.2	0.51	H	H 5
75一节 截5	0.810.9	0.41 10.82	047 10.6
0.67	5 -> R	RJS	R→ K
	10.01	0 33	0.33
0.086	70.064	1 1 1 1 1 1 1 1	1020
30.0001	70.084	TO-01	=90.048

Thus, it is most likely to be sunny sunny.

The only problem here is we need to Check?

The only problem here is we need to Check?

Algorithm, which is DP.

Note: for part 1; we also pectorm smoothing.
i.e. to avoid teros, we add 2 to each cell
& now division is done from they t

The algorithm Comprises et 3 moin steps:

1) initialization: Mottix (& D are initialized

2) Forward poss : DP tobular approach

3) Bolkword poss: Reconstruction at path.

