Naïve Bayes Example

Reference: https://web.stanford.edu/~jurafsky/slp3/, Chapter 3.

Positive tweets

I am happy because I am learning NLP I am happy, not sad.

Negative tweets

I am sad, I am not learning NLP I am sad, not happy

word	Pos	Neg	
I	3	3	
am	3	3	
happy	2	1	
because	1	0	
learning	1	1	
NLP	1	1	
sad	1	2	
not	1	2	
N	12	12	

word	Pos	Neg	
ı	0.24	0.25	
am	0.24	0.25	
happy	0.15	0.08	
because	0.08	0	
learning	0.08	0.08	
NLP	0.08	0.08	
sad	0.08	0.17	
not	0.08	0.17	
r) (\sim		l

2. I am learning NLP.

octivation function, E(W2+b) Stach/Sigmoid Hidden Cyer to 05th/h 0= (N/b) 7 min $\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n}$

Duhat is 17 So regression; Cy 202 (2) Classification -ylogg - (1-y)log(1-y) 3) How to the B= ortymic (b) aradient Descent 9+1-0+ - 7- Vg (94)

(4) How to Estimate Tol (Be) i) Chain-Rul BP $y = f(z) \qquad z = g(x)$ $\frac{dy}{dx} = \frac{dz}{dx}$ (ii) Shiffle date Oldervetion 9th, = 9t - 2. Vg L (/ , f (/ ,) de)

Hach Default Chrice of optimizen Chriticalization (W,b)~N(0,-1) (2) Norhalization: Xi-Xi
SD; (3) SRip WhAl Ction Jani shing Chadich

f(x) = -x + f(x) + x