

(cost function: Logistic Regnession vs Softmax Regnession)

[Logistic Regression]

$$a_1 = g(z) = \frac{1}{1+e^{-z}} = P(y=1|z)$$

Cost function: $J(\vec{w}, b) = average loss$

$$a_1 = \frac{e^2}{e^{21} + e^{22} + \dots + e^{2N}} = P(f-1/2)$$

$$a_{N} = \frac{e^{3N}}{e^{2i} + e^{2i} + - + e^{2N}} = P(y=N|2)$$

$$loss(a_1,...,a_N,y) = \begin{cases} -log a_1 & \text{if } y=1 \\ -log a_2 & \text{if } y=2 \end{cases}$$

 $-log a_N & \text{if } y=N \end{cases}$

* One-hot Encoding

: समिक्षिक्रम classel असिक्ष असि अभावत ये राज्या आयोग सिक्स ।, प्रायम व्यवस्था है। स्वार्थ

features - target					
2,	22	23	24	y	encoling /
1	2	3	4	×	[1.0.0.0]
5	6	0	P	0	[0,1,0,0]
9	10	"	12	D	[0,0,1,0]
13	14	15	16	4	[[0,0,1,0]]

training example |

(=||E||X|)

(=||E||X|)

(target
$$2L$$
)

(target $2L$)

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