Lec 3: Generative vs Discriminative, Tuesday, 6th Aug

06 August 2013

P(X, Y) =
$$\frac{1}{x}$$
 $p(x_i, y_i)$ +)

P(X, Y) = $\frac{1}{x}$ $p(x_i, y_i)$ +)

P(Y|X) = $\frac{1}{x}$ $p(y_i|X_i)$ 0

P(Y|X,b) = $\frac{1}{x}$ $p(y_i|X_i)$ 1

O= $\frac{1}{x}$ $\frac{$

P(11")

=
$$\frac{2}{K} P(y; | X; D)$$

= $\frac{1}{K} \frac{1}{1+e^{y}} w^{t} x_{i}$

= $\frac{1}{K} \frac{1}{1+e^{y$

$$\Lambda = \frac{\# G}{\# g + \# f}$$

$$M_{M} = \frac{1}{\# g} \frac{\Sigma}{\Sigma BOYS}$$

$$M_{F} = \frac{1}{\# G} \frac{\Sigma}{\Sigma GOYS}$$

$$P(G = [A, MF, MM, \Sigma]) = 660 \text{ or }$$

$$P(Y = MALEIX) > \frac{1}{2}$$

$$P(X | Y) P(Y)$$

$$P(X) P(Y)$$

$$P(X | M) P(Y)$$

$$P(Y | X)$$

= ARLMAX P(X,Y|b) P(b)
= MAP P(b)
$$\Lambda$$
 P(X,Y)
= ARLMAX P(X,Y) P(X,b)
= ARLMAX P(X,Y)
= ARLMAX P(X,Y)
= ARLMAX P(X,Y)
P(X,Y,Y,D)
P(X,Y,D)
P(X,Y,D)
P(X,Y,D)
AND P(Y,X,D)
AND P(X,Y,D)
AND P