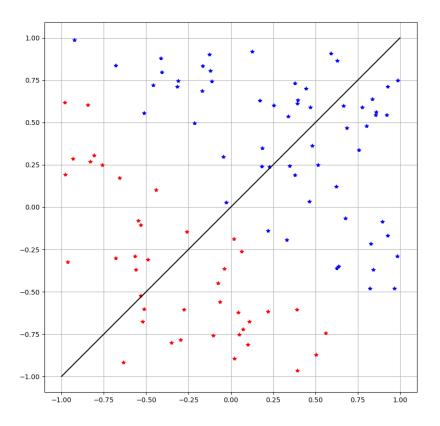
Asal Shavandi

$ \frac{2}{2}(\omega) = \frac{2}{2}x^{2}x\omega = \frac{2}{2}x^{2}y = 0 x^{2}x\omega = xy x^{2}(\omega)^{2} \cdot x^{2}y \\ \frac{2}{2}(\omega) \Rightarrow \frac{2}{2}x^{2}x^{2}(x^{2}x^{2}) \Rightarrow \frac{2}{2}x^{2}y + \frac{2}{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x^{2}x^{2}x + \frac{2}{2}x^{2}x^{2}x^{2}x^{2}x^{2}x^{2}x^{2$	(1)	$\phi(\omega) = (X\omega - y)^T(X\omega - y) = \omega^T x^T x \omega - 2\omega^T x^T y + y^T y$
replace $28 \times \sqrt{(x^Tx)^T} \times \sqrt{y} + 28 \times \sqrt{x} \times x$	a.	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		$\phi(\omega_{+}\delta)$ $\phi(\omega)$ $>$ $28^{T}XX\omega_{-}28^{T}XY_{+}8^{T}X^{T}X_{-}8$
$ \frac{\partial(\omega)}{\partial(\omega)} = (x\omega_{-y})^{T}(x\omega_{-y}) + \lambda\omega^{T}\omega_{-z}\omega^{T}x^{T}x\omega_{-z}\omega^{T}x^{T}y + \lambda\omega^{T}\omega_{-z}\omega^{T}x^{T}x\omega_{-z}\omega^{T}x^{T}x\omega_{-z}\omega^{T}x^{T}x\omega_{-z}\omega^{T}x\omega_{-z}$		
$\frac{2(\omega)}{2} = 2x^{T}x\omega - 2x^{T}y + 2\lambda\omega = 0 $ $x^{T}y = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - \omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - (x^{T}x + \lambda I)^{-1} \cdot x^{T}y$ $\frac{2}{2} = (x^{T}x + \lambda I)\omega - (x^{T}x + \lambda I)\omega -$	b	
$X^{T}y = (X^{T}X + \lambda I) \omega \qquad \omega = (X^{T}X + \lambda I) \qquad xy$ $Q \qquad No that is not a proper way. Each person's probability of having the disconsistency of the probability of having the disconse would be. (0.1) \qquad \text{P} \qquad \text{P(D=0} \text{P}(\text{N=1} \cdot \text{D=0}) = 0.7 \\ \text{P(N=1} \cdot \text{P(N=1} \cdot \text{D=0}) = 0.8 \\ \text{P(N=1} \cdot \text{P(N=1} \cdot \text{D=0}) = 0.8 \\ \text{P(N=1} \cdot \text{P(N=1} \cdot \text{D=0}) = 0.8 \\ \text{P(N=1} \cdot \text{P(N=1} \cdot \text{D=0}) = 0.2 \\ \text{P(N=1)} \text{P(N=1)} \text{P(N=1} \cdot \text{D=0} \text{P(N=1} \cdot \text{D=0}) = 0.2 \\ \text{P(N=1)} \text{P(N=1)} \text{P(N=1} \cdot \text{D=0} \text{P(N=1} \cdot \text{D=0} \text{D=0} \text{P(N=1)} \text{D=0} \text{P(N=1)} \text{D=0} \text{P(N=1)} \text{D=0} \text{P(N=1)} \text{D=0} \text{D=0} \text{P(N=1)} \text{D=0} \text{D=0} \text{D=0} \text{D=0} \text{D=0} \text{D=0} \text{D=0} \text{D=0} \text{D=0} \text{D=0} $	-	
b. $P(X=1 D=1)=0.7$ $P(D=1 X=1)=? = P(X=1 D=1)P(D=1)$ $P(X=0 D=0)=0.8 P(X=1)$ $P(X=1)=P(X=1 D=0)P(D=0)+P(X=1 D=1)P(D=1)$ $P(X=1 D=0)+P(X=0 D=0)=1 P(X=1 D=0)=0.2$ $P(X=1 D=0)+P(X=0 D=0)=1 P(X=1 D=0)=0.2$		
b. $P(X=1 D=1)=0.7$ $P(D=1 X=1)=7 = P(X=1 D=1)P(D=1)$ $P(X=0 D=0)=0.8 \qquad P(X=1)$ $P(X=1)=P(X=1 D=0)P(D=0)+P(X=1 D=1)P(D=1)$ $P(X=1 D=0)+P(X=0 D=0)=1 \longrightarrow P(X=1 D=0)=0.2$ $P(X=1 D=0)+P(X=0 D=0)=1 \longrightarrow P(X=1 D=0)=0.2$		No that is not a proper way. Each person's probability of having the dise is 0.1 so for a space with 10 people, the probability of one person have
$P(X=0 D=0) = 0.8$ $P(X=1) = P(X=1 D=0) P(D=0) + P(X=1 D=1) P(D=1)$ $P(X=1) = P(X=1 D=0) P(D=0) + P(X=1 D=1) P(D=1)$ $P(X=1 D=0) + P(X=0 D=0) = 1 \longrightarrow P(X=1 D=0) = 0.2$ $\longrightarrow P(X=1) = (0.2)(0.9) + (0.7)(0.1) = 0.25$		
$P(X=1 D=0) + P(X=0 D=0) = 1 \rightarrow P(X=1 D=0) = 0.2$ $P(X=1) = (0.2)(0.9) + (0.7)(0.1) = 0.25$		P(D=1 X=1)=7 = P(X=1 D=1)P(D=1)
P(X=1) = (0.2)(0.9) + (0.7)(0.1) = 0.25		P(X=1)=P(X=1 D=0)P(D=0)+P(X=1 D=1)P(D=1)
		0.0
- (\(\O_1\) \(\O_1\)		
$P(D > 1 \mid X = 1) = \frac{(0.7)(0.35)}{(0.25)} = 0.28$		$P(D>1 X=1) = \frac{(0.7)(0.1)}{(0.25)} = 0.28$



Perceptron.png Number of Iterations: 9 Error Rate of Perceptron: 0.00

