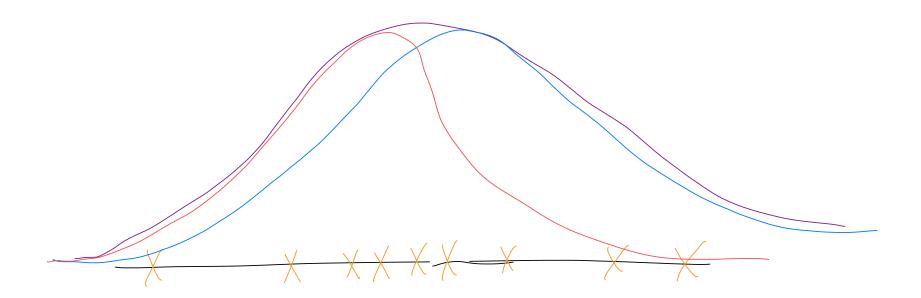
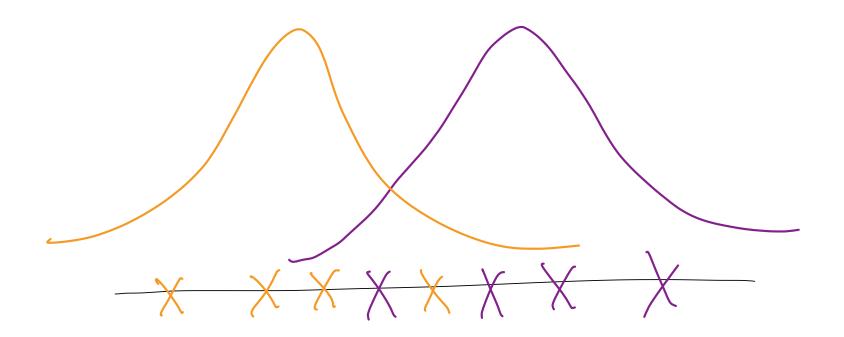
$\frac{1}{3} p(x^{(j)}|y) p(y)$ $\log(p(y)) + \sum_{j} \log(p(x^{(j)}|y))$

P(sunny 1 golf)
P(cloudy 1 golf)
P(ramy 1 golf)



 $M(M, \sigma^3)$



P(D) G, Gm)

MLE: maximum l'illihood estretion

$$P(Z|\mu,\sigma) = \frac{1}{2\pi\sigma^2} e^{-(z-\mu)^2}$$
 $P(Z|\mu,\sigma) = \sqrt{2\pi\sigma^2} e^{-(x_i-\mu)^2}$
 $P(Z|\mu,\sigma) = \sqrt{2\pi\sigma^2} e^{-(x_i-\mu)^2}$

$$3x^2 + 4y + 6xy + 10$$

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$$\mathcal{J}(\mu) = \rho \left(\frac{1}{\sqrt{2\pi\sigma^2}} \right)^{N} + \frac{1}{\sqrt{2\pi\sigma^2}} \left(\frac{x_i - \mu}{a\sigma^2} \right)^{N}$$

$$\ln \mathcal{J}(\mu) = \ln \left(\frac{1}{\sqrt{2\pi\sigma^2}} \right)^{N} + \frac{N}{\sqrt{2\pi\sigma^2}} \ln \left(e^{-\frac{(x_i - \mu)^2}{a\sigma^2}} \right)$$

$$\ln \left(\frac{1}{\sqrt{2\pi\sigma^2}} \right)^{N} + \frac{N}{\sqrt{2\pi\sigma^2}} - \frac{(x_i - \mu)^2}{a\sigma^2}$$

$$\frac{1}{\sqrt{2\pi\sigma^2}} + \frac{N}{\sqrt{2\pi\sigma^2}} - \frac{(x_i - \mu)^2}{a\sigma^2}$$

$$\frac{1}{\sqrt{2\pi\sigma^2}} + \frac{N}{\sqrt{2\pi\sigma^2}} - \frac{(x_i - \mu)^2}{a\sigma^2}$$

$$\log L(\sigma) = \log (\sigma + \frac{1}{2\pi})^{N} + \sum_{i=1}^{N} \frac{(x_{i} - \mu)^{2}}{2\sigma^{2}}$$

$$= N \log (\frac{1}{\sigma} \cdot \frac{1}{2\pi}) + 11$$

$$= -N \log (\sigma) - N (\log (4\pi)) + \sum_{i=1}^{N} - (x_{i} - \mu)^{2} (\frac{1}{\sigma})^{2}$$

$$= -N \frac{1}{\sigma} + \frac{1}{\sigma} \sum_{i=1}^{N} - (x_{i} - \mu)^{2} (-2\sigma^{2})$$

$$= -N \frac{1}{\sigma} - \frac{1}{\sigma} \sum_{i=1}^{N} - (x_{i} - \mu)^{2} (-2\sigma^{2})$$

$$= -N \frac{1}{\sigma} - \frac{1}{\sigma} \sum_{i=1}^{N} - (x_{i} - \mu)^{2}$$

$$N = \frac{1}{3} \sum_{i=1}^{N} (x_i - M)^2$$

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