$$\theta = powameter = \begin{pmatrix} x_1 & x_{12} & x_{1p} \\ x_2 & x_{22} & x_{2p} \\ \vdots & \vdots & \vdots \\ x_{N1} & x_{N2} & x_{Np} \end{pmatrix}_{IVXP}$$

イント(\*10) 服从分布

$$P(\theta|x) = \frac{P(x|\theta) \cdot P(\theta)}{P(x|\theta) \cdot P(\theta)} \propto P(x|\theta) P(\theta)$$

$$P(x|\theta) \cdot P(\theta) = \frac{P(x|\theta) \cdot P(\theta)}{P(x|\theta) \cdot P(\theta)} = \frac{P(x|\theta) \cdot P(\theta)}{P(x|\theta) \cdot P(\theta)}$$

## MAP(最大后验和纸轮件):

$$\theta_{MAP} = arg \max_{\theta} P(\theta|x) = arg \max_{\theta} P(x|\theta) \cdot P(\theta)$$

アサ斯志す: 
$$P(\theta|X) = \frac{P(x(\theta) \cdot P(\theta))}{\int_{\theta} P(x(\theta)) P(\theta) d\theta}$$

Red 斯 禄湖): 
$$X$$
,  $\tilde{\chi}$ (新越梯).  $\tilde{\chi}$  作的幾度動析彩. 
$$P(\tilde{\chi}|X) = \int_{\theta} P(\tilde{\chi}|\theta) \chi d\theta$$
 
$$= \int_{\theta} P(\tilde{\chi}|\theta) P(\theta|\chi) d\theta \qquad \qquad C$$
 后途.

< 稀绝是做预测的新提 >

- ① 模型 ② WSS function ③ 梯度下降+S 求