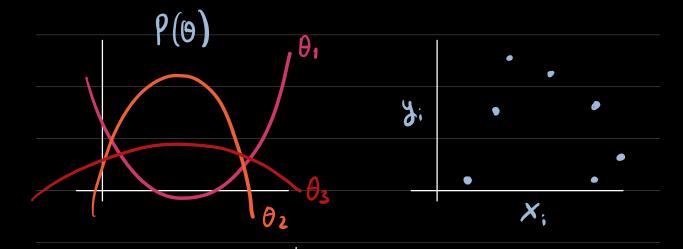
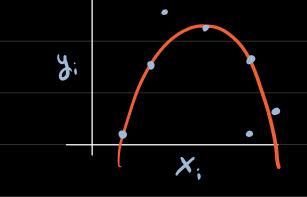
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$$P(\theta)$$
 15 or 11 or 20. 11 or $P(\theta)$ $P(\theta)$





$$M_{\theta \mid D} = \left(\frac{1}{\sigma^2} H^{\dagger} H + \sum_{\theta}^{-1}\right)^{-1} \left(\sum_{\theta}^{-1} M_{\theta} + \frac{1}{\sigma^2} H^{\dagger} Y\right)$$

J10~N(HB, 52)-1 (9~N(MB, Z0) PK : 60 EN y(X.) | D ~ N (ht(X.) M OID, ht(X.) I DID h(X.)) $h^{T}(X_{0}) = h_{A}(X_{0}) + h_{I}(X_{0}) + \dots + h_{A}(X_{0})$ show De Jama G(XL) - S Wilder TAND ENISE

My(xa) is h T(XL) Main Kin BMSE

Bayesian Model Selection

(c) C_{1} C_{2} C_{3} C_{4} C_{5} C_{5}

2 (y; -y(x;))² - MSE - 3l p (311 202) - \$132 /183 20 cal (3) 630.

The $y^f(x)$ is piece that $y^f(x)$ is piece that $y^g(x)$ is piece that $y^g(x)$ is piece that $y^g(x)$ is $y^g(x)$ in $y^g(x)$ is $y^g(x)$.

MSE $(y^{mle}, f(x)) \gg MSE(y^{mle}, g(x))$

MSE-3 SK TOUNE Y-D KID YMLE *

> P(HID) ~ / NAD ~ / NEG ~ 258-51 P(H="f" | D) = P(H="f") - P(D) H="f") - 1/P(D) evidence

P(DIH="f"):= \(P(\text{O}|H=\text{f"}) \cdot P(\text{D}|\text{D}|\text{H=\text{f"}}) \cdot \? \(\text{P(\text{D}|\text{D}|\text{H=\text{f"}}) \cdot \) \(\text{P(\text{D}|\text{D}|\text{D}|\text{H=\text{f"}}) \cdot \) \(\text{P(\text{D}|\text{D}|\text{H=\text{f"}}) \cdot \) \(\text{P(\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{H=\text{f"}}) \) \(\text{P(\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\text{D}|\tex

 $\frac{1}{2} \frac{\partial^{2} N(H\theta, \sigma^{2}I) - 1}{\partial^{2} N(M\theta, Z\theta)} = \frac{1}{2} \frac{\partial^{2} N(M\theta, Z\theta)}{\partial^{2} N(M\theta, Z\theta)} = \frac{1}{2} \frac{\partial$

 $P(D|\theta) = \frac{P}{IL} \sqrt{\frac{1}{2\pi} \sigma^2} \exp\left(-\frac{1}{2\sigma^2} \left(y_i + y_{mi}(x_i)\right)^2\right) (1.3563)$

 $= \left(\frac{1}{\sqrt{2\pi}\sigma^2}\right)^{\rho} exp\left(-\frac{1}{2\sigma^2}\cdot MSE\right)$

(2) C31C9 | D_{10} | D_{10}

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$$= e^{\chi p(c)} \cdot \int_{\Theta} e^{\chi p(\theta)} \left(\theta - M_{\theta 1D} \right)^{-1} \sum_{\Theta 1D}^{-1} \left(\theta - M_{\theta 1D} \right) \right)$$

$$= e^{\chi p(c)} \cdot \int_{\Theta} e^{\chi p(\theta)} \left(\theta - M_{\theta 1D} \right)^{-1} \sum_{\Theta 1D} \left(\theta - M_{\theta 1D} \right) \right)$$