$$V_{5}(X) = \int_{1}^{2} x^{2}(x+1) dx + \int_{2}^{2} x^{2}(1-x) dx$$

$$E[X^{2}] = \int_{1}^{2} x^{2}(x+1) dx + \int_{2}^{2} x^{2}(1-x) dx$$

$$= \left(\frac{x^{\frac{4}{4}} + \frac{x^{\frac{3}{3}}}{3}}{4}\right) + \frac{x^{\frac{3}{3}} - \frac{x^{\frac{4}{4}}}{4}}{3}$$

$$= -\frac{1}{4} + \frac{1}{3} + \frac{1}{3} - \frac{1}{4} = \frac{2}{3} - \frac{1}{102} = \frac{1}{6}$$

$$C_{3}(x,x) = 0.3 - 0.3(.8)$$

$$QL(\alpha|X,...,X_n) = \alpha^n \prod \frac{1}{x_i^{\alpha+1}}$$

$$Q(\alpha) = n(0)(\alpha) - (\alpha+1)(0)(x_i)$$

$$\frac{\partial l}{\partial a} = \frac{n}{\alpha} - \frac{1}{100} \left(\frac{1}{2} \right)$$

$$\hat{J} = \frac{n}{2l_{2}(x_{2})}$$

$$(21)$$
 $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ (-6) $\sqrt{2.06}$ $\sqrt{2.06}$

(23) Mention:

Correlation (overfitty)

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Spores LASDO coefficients / voicible
selection

(24) Need to mention thinder that

the parametr is within

CT for 95-1. of surples