Maximum likelihood

Maximum likelihood

$$P(x=k) = e^{-\phi} \frac{\partial x}{\partial x}$$

Sikelihood function

 $L(\vec{x},0) = f(x_1,0) \cdot f(x_2,0) ... \cdot f(x_n,0) > 0$
 $P(x=x_1,0) \cdot f(x_1,0) \cdot f(x_2,0) ... \cdot f(x_n,0) > 0$
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 $P(x=x_1,0) \cdot f(x_1,0) \cdot$

 $X_1, X_2, \dots, X_n - a$ simple sample out of uniform distribution on [0;0] $\lambda(\vec{x}, \theta) = \frac{1}{0} I(0 \le x_1 \le 0) \cdot \frac{1}{0} I(0 \le x_2 \le 0) \cdot \dots$ $\cdot \perp I (0 \leq \mathcal{L}_n \leq 0) =$ = $\frac{1}{8}$, $T(maxe <math>R_k \leq 8)$ = max ck

$$X_{1}, X_{2}, \dots, X_{n} - i \cdot i \cdot d \cdot v_{n},$$

$$X_{k} \sim \mathcal{U}[Q; Q+1]$$

$$\lambda_{k} \sim \mathcal{U}[Q+1]$$

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$$\lambda_{k} \sim \mathcal$$

$$0 \leq x_n \leq 0+1$$

$$\int d \leq \min_{1 \leq k \leq h} x_k$$

 $\exists T(\max x_k - 1 \leq \theta \leq \min x_k)$

 $\max x_k - 1 > \min x_k$

 $\theta^* = \min_{x \in \mathbb{Z}} x_x - 1$

 $E \theta^* = (0 + \frac{1}{n+1}) + (0 + \frac{n}{n+1}) - 1$

 $\max x_k - \min x_k > 1$

Frank
$$X_k$$
 (t) = $P(max X_k < t) = P(X_1 < t, X_2 < t)$,

---, $X_h < t) = P(X_1 < t) \cdot P(X_2 < t)$. $P(X_h < t) = P(X_1 < t) \cdot P(X_2 < t)$. $P(X_h < t) = P(X_1 < t) \cdot P(X_1 < t)$

= $P(X_1 < t) \cdot P(X_2 < t)$. $P(X_1 < t) \cdot P(X_1 < t)$

= $P(X_1$

both parameters are unknown/
$$L(\vec{x}, \theta) = \prod_{k=1}^{n} \left(\frac{1}{20^{n}} e^{-\frac{n}{20^{n}}}\right) = \lim_{k=1}^{n} \left(\frac{1}{20^{n}} e^{-\frac{n}{20^{n}$$

 $X_1, X_2, \ldots, X_n - i.i.d. x.V.$