PK1 Tepenicobertue 19.04.2021

Tabour Durumpui it regretion

W47-66

Bapuarm Nº 29

Orlinge rucio duemos: 5

19.06.2021

N1 Henpepubnice curvature becure $\frac{1}{2}$ when nonmorms principalities $f_{\frac{1}{2}}(*) = \frac{3+2}{0(1+\frac{1}{2})^{1/0+1}}$, $\frac{1}{2}$ 70,

The zerotence $\Theta > 0$ recuseums. Dur ordina naparento Θ menostryems emmente $\Theta(\vec{z}) = \frac{1}{n}\sum_{i=1}^{n} \left(n\left(1+\vec{z}_{i}^{3}\right)\right)$

rge $\vec{z}=(\vec{z}_1,...,\vec{z}_n)$ - cryswinne trotopra uz recepsarios cobonzanovam \vec{z} . Muremon ur arema $\hat{\sigma}(\vec{z})$ a) recreusemai. $\vec{\sigma}(\vec{z})$ typoperumbroi no lao-Kyarrey?

o) owner theremen Heckensimmain, each $M \hat{\sigma}(\vec{z}_n) = 0$ Shyrme $X := g(\vec{z}) = \ln(1+\vec{z}^3)$ $g^1(x) = \sqrt[3]{e^{x}-1}$ $f_{\vec{z}}(g^1(x)) = \frac{3(e^x-1)^{\frac{2}{3}}}{\Theta(e^x)^{\frac{2}{9}+1}}$ $[(g^{-1})^1(x)] = \frac{e^x}{3(e^x-1)^{\frac{2}{3}}}$ $f_{\vec{x}}(x) = \frac{1}{\Theta(e^x)}$ $f_{\vec{x}}($

Organia n Abraemer Heckeyeimman

S) Unorthe reason probability deposits no loss Kranepy, regions

Having notagement representational, remoration probability

$$E(\hat{A}) = \frac{1}{\Gamma(A)}DE\hat{A}$$
; $I = nI_0(A)$, the

 $I_0(A) = M\{\left[\frac{\partial \ln f(X,A)}{\partial A}\right]^2\}$;

 $DX = MEX^2J - (MX)^2$
 $DX = \frac{1}{\theta}\int_0^{\infty} \frac{x^1}{e^{N/\theta}} dX - \Theta = -(x^1 + 2\theta X + 2\theta^2)e^{-\frac{X}{\theta}}\Big|_0^{\infty} - \Theta^2$
 $= 2\theta^2 - \theta^2 = \theta^2$;

 $D\hat{B}(\frac{1}{2n}) = \frac{1}{n^2}\sum_{i > 0}D(X_i) = \frac{\theta^2}{n}$
 $\left(\frac{\partial \ln f_X(X)}{\partial Y}\right)^2 = \left(-\frac{1}{\theta} + \frac{X}{\theta^2}\right)^2 = \frac{(X-\theta)^2}{\theta^4}$;

 $M\left(\frac{(X-\theta)^2}{\theta^4}\right) = M\frac{(X-\theta)^2}{\theta^4} = \frac{\theta^2}{\theta^4} = \frac{1}{\theta^2}$

N2. Duk orpegenerum comotikorom pezige iz crimba T15 K lSomm uchumarin N=11 odpazizol npu enoporom pezigen 0,35 mel cu rozame 0,12 mul od, l pezigeneme rero romyunu chezigeneme daposme pumura brenenu padomo peziga go zamynimbanue: $\vec{X}=152,3$ min, $S(\vec{X})=3.43$ min, Toanpourus gobepimentani unoreplan ypobat j=0,95 gut cheznero brenenu padome peziga go zamynim-lorum.

Dano:
$$N=11$$

 $J=0,35$
 $X=152,3$
 $J=3,43$
 $J=11.46$ - unpablement necturing in $J=11.46$
Han agenta guereprun $J=11.46$

Compour gobepunertheuri unemplour gett cregnero (main. oscugoma) no goopuyre. $X - t_f \cdot \stackrel{S}{=} < \alpha \times \overline{X} + t_f \cdot \stackrel{S}{=}$

tz - Kbanninis zpobne 1- j zur n-1 cmenera chodoga uz pacapequenus Consvogerna

Boseview concumum
$$T(\vec{X}, de) = \sqrt{n} (\vec{X} - ge) \sim St(n-1)$$

 $S(\vec{X}_n) \sim St(n-1)$

8 = P{t, < T(R,a) < t1-12}

$$J = P\{\underbrace{t - t_{\frac{1+x}{2}}}_{S(\overline{X})} \cdot \underbrace{t_{\frac{1+x}{2}}}_{S(\overline{X})} \cdot \underbrace{t_{\frac{1+x}{2}}}_{S(\overline{X})}\}$$

$$J = P\{\underbrace{x - S(\overline{X})}_{S(\overline{X})} \cdot \underbrace{t_{\frac{1+x}{2}}}_{S(\overline{X})} \quad \text{if } x \in X + \underbrace{S(\overline{X})}_{S(\overline{X})} \cdot \underbrace{t_{\frac{1+x}{2}}}_{S(\overline{X})}\}$$

$$\frac{\alpha(\vec{x}) = \vec{x} - S(\vec{x}) \cdot t_{\frac{1+y}{2}}}{\sqrt{n}}$$

$$1 = \vec{x} + \frac{S(\vec{x}) \cdot t_{\frac{1+y}{2}}}{\sqrt{n}}$$

$$\frac{1+3}{2} = \frac{1+0.95}{2} = 0.975$$

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$$\frac{1+3}{2} = \frac{1}{2} = \frac{3.43 \cdot 2.281}{1} = \frac{4.64}{3.31} = 2.30$$

$$\frac{1+3}{2} = \frac{152.3 - 2.3}{2} = 150$$

$$\frac{1+3}{2} = \frac{152.3 - 2.3}{2} = 154.6$$

$$\frac{152.3 + 2.3}{2} = 154.6$$
Omben: (150; 154.6)