Predictive Analytics Using statistics (UCS654)
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PARAMETER ESTIMATION
$\int f(x) = 1 e^{2x^2}$
127 T2
( We - XI ( X - 1 - ) - P. X - A - X - A - A - A - A - A - A - A -
$\frac{\sqrt{2\pi}\sqrt{2}}{\sqrt{2\pi}\sqrt{2}}$ sample of size $n$
$L(x_1, x_2,$
$\frac{1}{\sqrt{1-1}} \frac{1}{\sqrt{1-1}} 1$
$\frac{-(x_1-u)^2}{\sqrt{2}}$
12702
2 12 12 12 12 12 12 12 12 12 12 12 12 12
taking en on both sides
2 2 Cl 2000
$ln(L) = -n ln(2\pi\sigma^2) + 5  (24-1)^2  \rightarrow 0$
$2 \qquad \qquad 2 \qquad \qquad$
$\frac{2\ln(1)}{2\pi} = 0 + \sum_{i=1}^{\infty} -\left(2\left(2i - 11\right)^{2}\right) = 0$
N O J D
∑ (×4-11) ≠ 0 = 10 €
1=1 9-1 19-179
$n\bar{x} - nu = 0$
$\overline{x} = u$ is $\overline{x} = u$
.20
0,= X is therrefore sample mean

$$\frac{2\ln(L)}{\Omega_{0}^{2}} = -\frac{n}{2\sigma^{2}} + \frac{n}{2\sigma^{2}} = 0$$

$$n = \int_{i=1}^{\infty} (2i - U)^{2} = 0$$

$$\sigma^{2} = \frac{1}{2} \int_{i=1}^{\infty} (2i - U)^{2}$$

$$\sigma^{2} = \frac{1}{2} \sum_{i=1}^{\infty} (2i - U)^{2}$$

$$\sigma^{2} = \frac{1}{2} \sum$$