

Assignment - 6

Quest

Ans

What is a Cumulatine Distribution function, and how does it

EDF of a real-valued Random variable X are in the probability that X will take a value len than or equal to X.

(DFund to specify the distribution of Hultivariate Yardon

Fox(x) = P(X ≤x) → for discrete Randon variable Fx(x) = \int f_x(t)dt \rightarrow For Continues. Random variable

 $\lim_{X \to -\infty} F_X(X) = 0$ and $\lim_{X \to \infty} F_X(X) = 1$

Defor all year no. a & b with continous Random Variable X, then
the function for in equal to derivate of fix

b $f_{x}(b) - f_{x}(a) = P(a < x \leq b) = \int_{a}^{b} f_{x}(x) dx$

-) Plot of addition of all previous points)



Our When should we are a t+test v/s a z-test?

deviation or when Sample size it less than 30.

aun3 How do nu examine two categories characteristics?

Amora can also be und for more

Chi-Square test is performed to examine relationship blue 2 or more categorical variables

Formulae $\Rightarrow \chi^2 = \sum_{e} (f_0 - f_e)^2$

Our's Explain the concept of chetyster's Inequality.

An It is used to find Emperical Formulas for non hausian

Shtribution

formulae => $P\left(U-K\sigma\right) \leq Y \leq \left(U+K\sigma\right) \geq \left(I-1\right)$

where, K > 1 always

Y & Gaussier Distribution

 $\frac{\mathcal{E}_{q}}{\mathcal{F}} \frac{ij \ k=2}{p[(\mathcal{U}-2\sigma) \leq \mathcal{Y} \leq (\mathcal{U}+2\sigma)]} \geq \frac{3}{4} \approx 75\%$

