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Store to variable: X — thing to store.

* Store a vector to r — C (vector coords.)

a variable:

Remembers $(\xi_{xp}(\lambda))': f_{\chi}(x) = \lambda e^{-(\lambda \chi)}$ $E(x) = \frac{1}{7} i V(x) = \frac{1}{7^2} \text{ or } f_{\chi}(y) = \frac{e^{-(\chi/\beta)}}{\beta}$ $E(y) = \beta i V(y) = \beta^2$

Camma Function $\int (p) = \int (y^{2}-1) - X \int_{V} = (p-1)!$

Change Function:
$$\Gamma(p) = \int \chi^{p-1} e^{-\chi} d\chi = (p-1)!$$

Grammer RV: params (α, β) $\longrightarrow \chi \sim g$ and (α, β)

then; $f_{\chi}(x) = \int \Gamma(\alpha) \beta x \cdot \chi \cdot e^{-(\chi/\beta)}$

When $A = 1$; $G_{14mma}(1, \beta) = \sum_{\gamma \neq 0} \sum_{\alpha \in A} \Gamma(\beta)$

If we have $\chi_1 + \dots + \chi_n \sim \sum_{\gamma \neq 0} \sum_{\alpha \in A} \Gamma(\beta)$

Then $Y = \chi_1 + \dots + \chi_n \sim \sum_{\gamma \neq 0} \sum_{\alpha \in A} \Gamma(\beta)$
 $\chi \sim \sum_{\gamma \neq 0} \Gamma(\beta) \longrightarrow M_{\chi}(t) = \frac{1}{1-\beta t}$
 $\chi \sim \beta = \sum_{\gamma \neq 0} \Gamma(\alpha, \beta) \longrightarrow M_{\chi}(t) = \frac{1}{1-\beta t}$
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 $\chi \sim \beta = \sum_{\gamma \neq 0} \Gamma(\alpha, \beta) \longrightarrow M_{\chi}(t) = \frac{1}{1-\beta t} (\alpha, \beta)$

X ~ PEIT(A,B), JX (B) · X · (I-X)

VS. BayESIAN STATISTICS Go think of MI of as Random Variables with a Soint Estimate Distribution "P(M, 8)" of which MFO for the 's called the "prior" distribution. norma / Than gather data that is

generated by our distribution;

of which we will use to then

our predictions of m & o dist. M7 8 numbars