Whanesus

a standard

probability

a) N=20 K=18 = $\left(\frac{30}{18}\right)(0.9)^{18}(1-0.9)^{(30-18)}$ P-1901-0.9 = 201 (0.9)18 (1-0.9) (20-18) 1) (25 8 8 1 (81-92) (20 - 18) (18 1-9 5) 9

= 0.285 = 0.285b) P(x > = 17) = P(x = 17) + P(x = 18) + P(x = 19) + P(x = 19)

100 80 = 0.8670

80080 0818 = 86.701. c) P(x>=17) where low, the model would be unreliable & require retraining.

-) At high probability (86.7%) means the model performs well 7 may not need immediate improvement je group of eros 1804 mi

a) y - Binomial (n=50, p=0.2) P(4=10) = (50)(0-2)10(0.8)00 P(4=10) = 0-1398 = 13.98 1

b) P(4515) = 5 P(4=k): 0.9692 (96.92%)

cl 21 disport is increased to 0.3 the probability! of exactly 10 neurons being dropped decreary P(Y=10) = 0.0386 (93-861.). 5(5.00)=x-50