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->m (known F'ne z') The likelihood function is -L(0) x = - xn) = TP(xi=xi(0) Suice L'i follows bunoulli dist? P(Xi= Nilo) = 0 ni 1-0) for whi Taking log on both sides lul(0/21, 12. -- 21m) = 5 lu (0 (1-0) = \(\(\chi_1 \ln \text{O}(m-ni) \ln(1-0) \) Diffrentiete w.r.t D 8 ln L (06/11, 12. 12) = 0 $\sum_{i=1}^{n} \left(\frac{\pi_{i} - m - \pi_{i}}{0} \right) = 0$ $\frac{5\pi i}{5\pi i} = mn - \frac{5\pi i}{5\pi i}$ 1, 9 = 5 moni

So max likeli hood istrincted 0 is

Omer = I ni

n.m The likeliand feneralises in -: [[E|N, join . 10]] = 75 P(Hi= Ki. [Suice XI for word a provident IX will 144 Ca-1 J. E. - (A) 24 = 15 18 . Jaking top en Locus - ites -11 8 1 NO 2 - JON 10 10 1 10 1 10 1 milenin ! Official con temple