Binomial distribution = $\binom{n}{2} \binom{n}{1-0}^{n-n}$ $L = \prod_{i=1}^{n} \binom{n}{2} \binom{n}{1-0}^{n-n}$

Taking dog $\log(L) = \frac{2}{5} \left(\log^{n} C_{n_{i}} + \log^{n_{i}} + \log(1-0)^{n-n_{i}} \right)$

= \(\times\) \(\times\

Differentiate wst. 0.1)

1 log L = 0 + 1 Exi + (-1) · 2 (n-ni) = 0

€ xi = 1 ≥(n-ni) = 0

0=1/1-12 1-0 1-0.

4 = FEN; = . m2

 $0 = 2 \pi i$ $0 = 2 \pi i$ 1 = 1