success probability 1 let Pi probability Approve of HOV lane of country i ni -> # commuters Y; -> no. of Approve this will follow biromial Yilpi ~ Bir (ni, pi) Liklihood $f(A_{i}|b_{i}) = u_{i} c^{A_{i}} b_{i}^{i} (1-b_{i})_{u_{i}-A_{i}}$ L(f) = log (f (Yill;) log nie, + yi logeri) + (ni - yi) loger- Pol for feffrey's prions. $\frac{\partial l}{\partial p_i} = \frac{y_i'}{p_i} - \frac{y_i' - y_i'}{1 - p_i'}$ $\frac{\partial^2 J}{\partial p_i} = \frac{y_i^2 - y_i^2}{p_i^2} \frac{y_i^2 - y_i^2}{(1 - p_i)^2}$ I(Pi) = - E (- 228) $=\frac{\eta_i P_i}{P_i^2} + \frac{1}{(1-P_i)^2} (\eta_i - \eta_j^* P_i)$

Jeffrey's prior.

$$tt(P_i) \propto \sqrt{I(P_i)} = \sqrt{P_i(1-P_i)} = P_i^{-1/2} (1-P_i)^{-1/2}$$

$$\propto P_i^{-1/2} (1-P_i)^{-1/2}$$

$$\leq Beta(1/2, \frac{1}{2})$$

95% Chedible internal for county;

(L, U)

L= abedfa (0.025, 50 4;+1, n;-4;+1)

(b)
$$\hat{p} = 0.48$$

where 0.02

$$\frac{ab}{(a+b)^{2}(a+b+1)} = 0.02$$

$$\frac{a}{(a+b)^{2}(a+b+1)} = 0.02$$

$$\frac{a$$

$$l = log (f(Y_i - Y_i | u))$$

$$= log (f(Y_i - Y_$$

$$\frac{1}{1} \left(\frac{1}{2} \right) \frac{1}{2} \frac{1}{2$$

(8).
$$\gamma:10$$
 jid Laplace (M, σ) , $0:2(M, \sigma)$

$$f(\gamma 1M, \sigma) = \frac{1}{2\sigma} e^{-\frac{|\gamma-y|}{2\sigma}}$$

le e IR

$$d = \frac{1}{\sqrt{1 - |V_{1}| 0}} \pi(0)$$
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R2
$$\min\left\{1, \frac{p(o_i^*|o_{ij}, \gamma)}{p(o_{ij}^*|o_{ij}, \gamma)}\right\}$$