Final_mod

Initial Model Proposal

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- $X_{1,i}$: Age Group

- $X_{2,i}$: Race

- $\eta_{0,j[i]}$: State level effect

- $j[i]$: refers to the individual specific state

$$\text{logit}(\pi_i) = \log\left(\frac{P(Y_i = 1|\mathbf{X}_i)}{1 - P(Y_i = 1|\mathbf{X}_i)}\right) = \beta_{0,j[i]} + \eta_{0,j[i]} + \beta_{1,j[i]}X_{1,i} + \beta_{2,j[i]}X_{2,i}$$