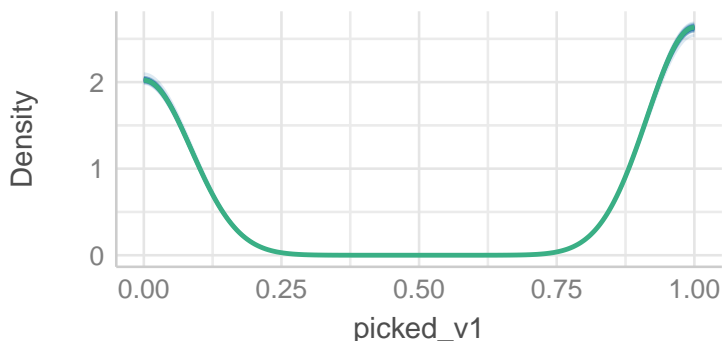


$$\text{reg_rate} + \text{baseline_log_odds_jitter} * \text{reg_dist} * \text{variation}$$

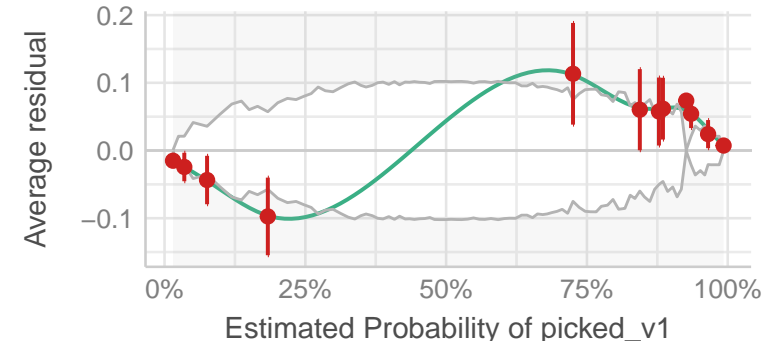
Posterior Predictive Check

Model-predicted lines should resemble observed data line



Binned Residuals

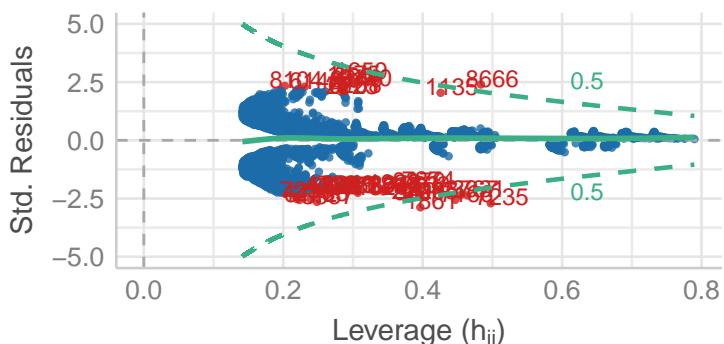
Points should be within error bounds



Model-predicted data — Observed data — Observed data —

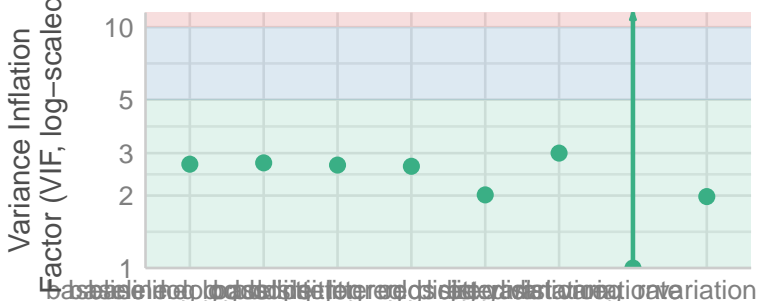
Influential Observations

Points should be inside the contour lines



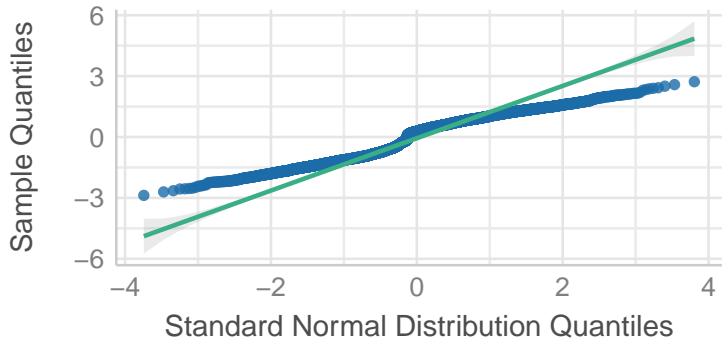
Collinearity

High collinearity (VIF) may inflate parameter uncertainty



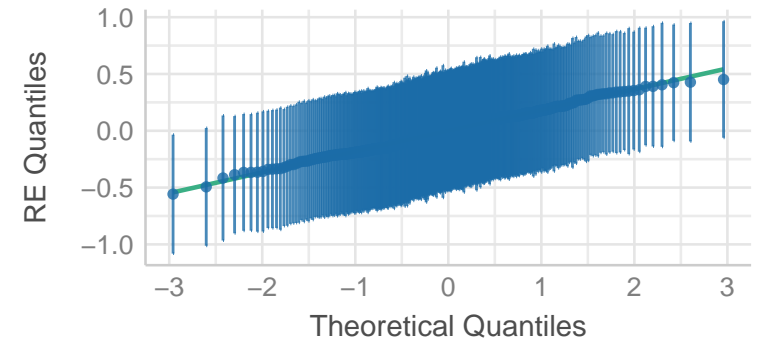
Normality of Residuals

Dots should fall along the line



Normality of Random Effects (base)

Dots should be plotted along the line



Normality of Random Effects (part_id)

Dots should be plotted along the line

