reg_rate + reg_dist + baseline_log_odds_jitter + variation
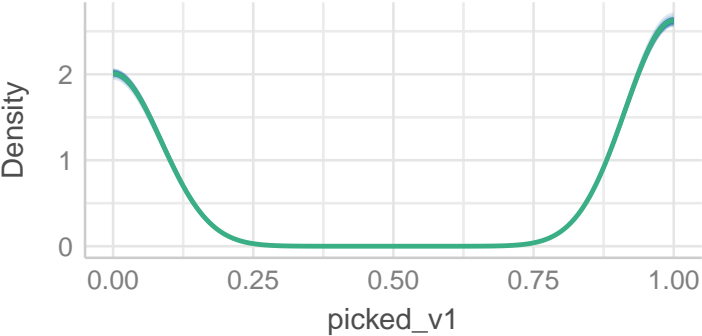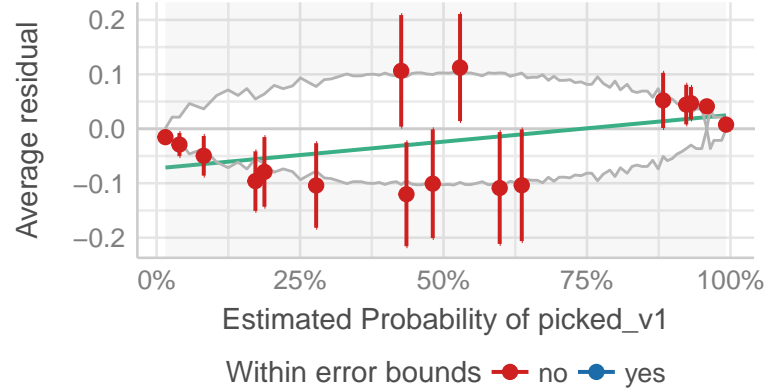
Posterior Predictive Check
Model-predicted lines should resemble observed data line
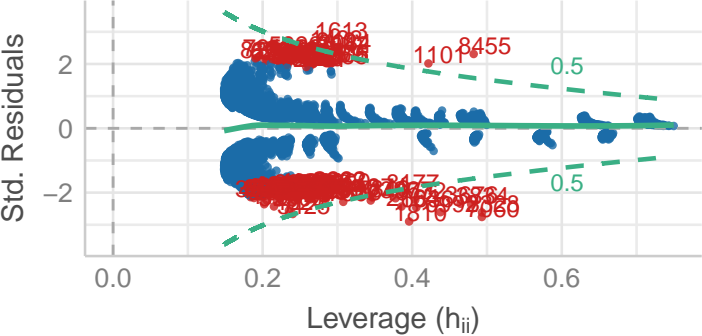

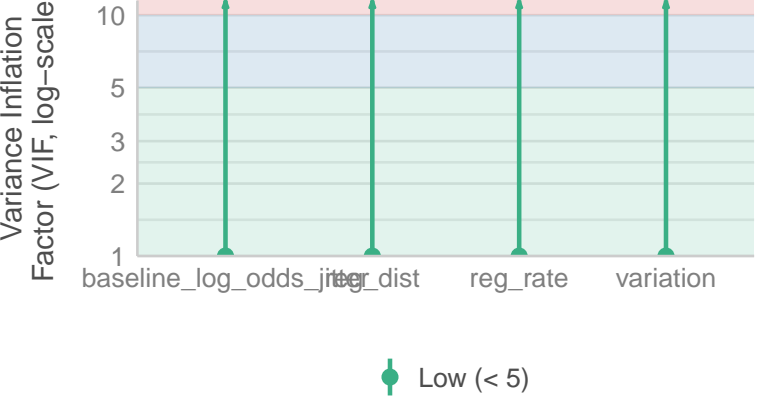
Binned Residuals
Points should be within error bounds

Model-predicted data — Observed data — Observed data — N

Within error bounds — no — yes

Influential Observations
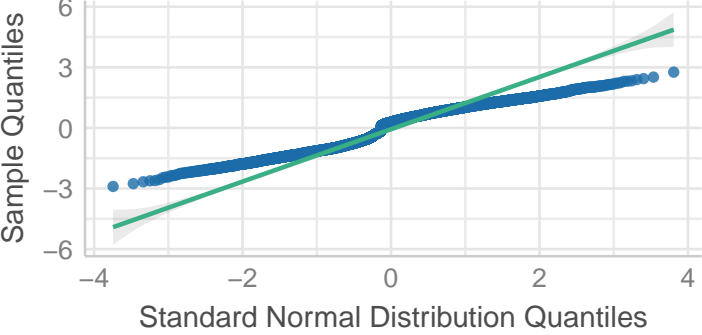Points should be inside the contour lines

Collinearity
High collinearity (VIF) may inflate parameter uncertainty
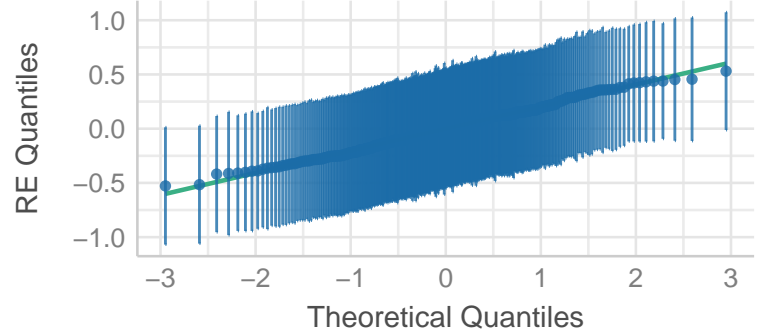

Low (< 5)

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