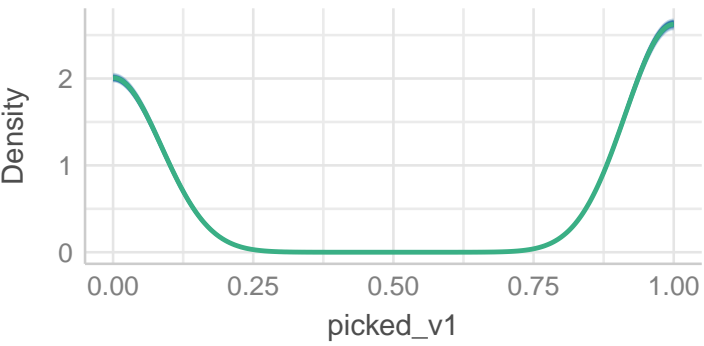# reg_rate * variation + baseline_log_odds_jitter * reg_dist * variation
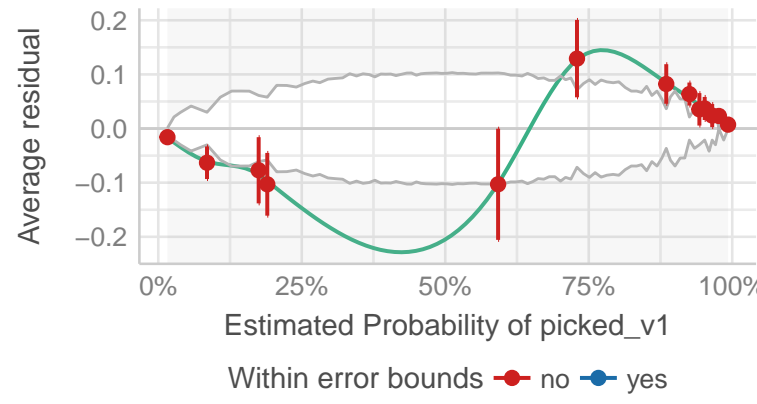
Posterior Predictive Check
Model–predicted lines should resemble observed data line
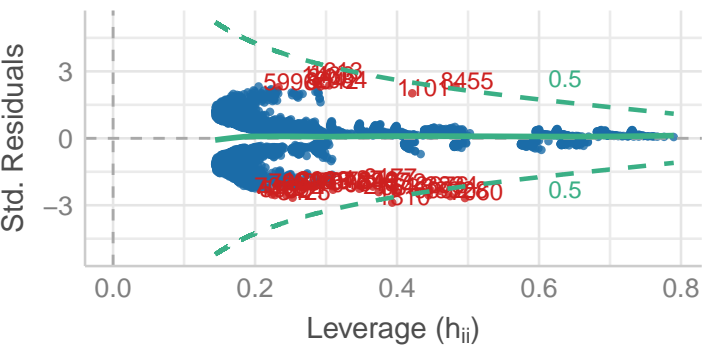
Density

picked_v1

el–predicted data — Observed data — Observed data — M

Binned Residuals
Points should be within error bounds

Average residual

Estimated Probability of picked_v1

Within error bounds — no — yes

Influential Observations
Points should be inside the contour lines

Std. Residuals

599 042
024 1.01 8455
0.5

426 177 0.5
5161 160

Leverage (h_{ii})

Collinearity
High collinearity (VIF) may inflate parameter uncertainty

Variance Inflation Factor (VIF, log–scaled)

baseline_log_odds_jitter reg_rate reg_dist variation baseline_log_odds_jitter

Low (< 5)
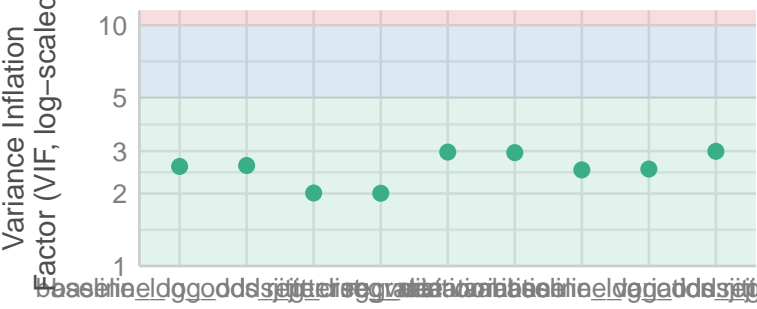
Normality of Residuals
Dots should fall along the line

Sample Quantiles

Standard Normal Distribution Quantiles
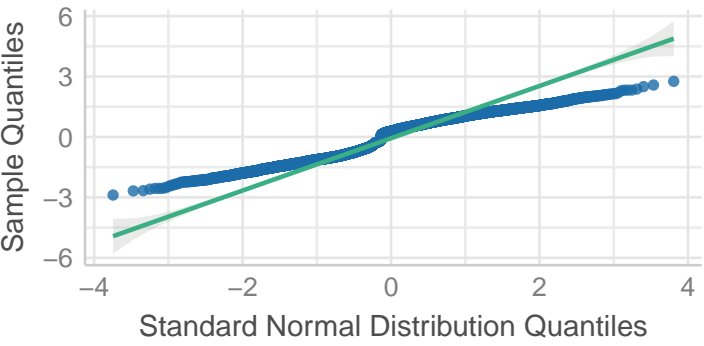
Normality of Random Effects (base)
Dots should be plotted along the line

RE Quantiles

Theoretical Quantiles
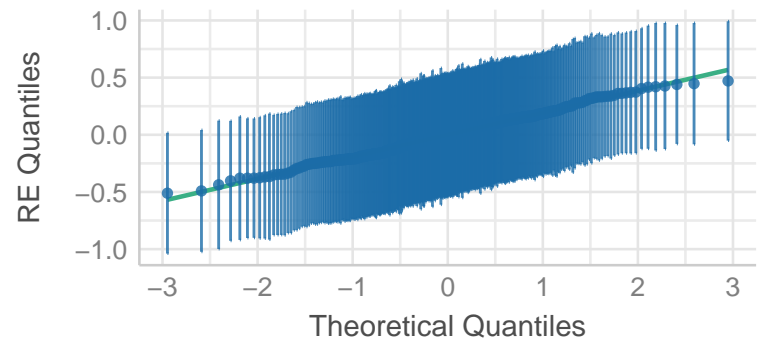
Normality of Random Effects (part_id)
Dots should be plotted along the line

RE Quantiles

Theoretical Quantiles