

# Logistic Regression

MilesRemaining ~ GaugeLevel

Uses:

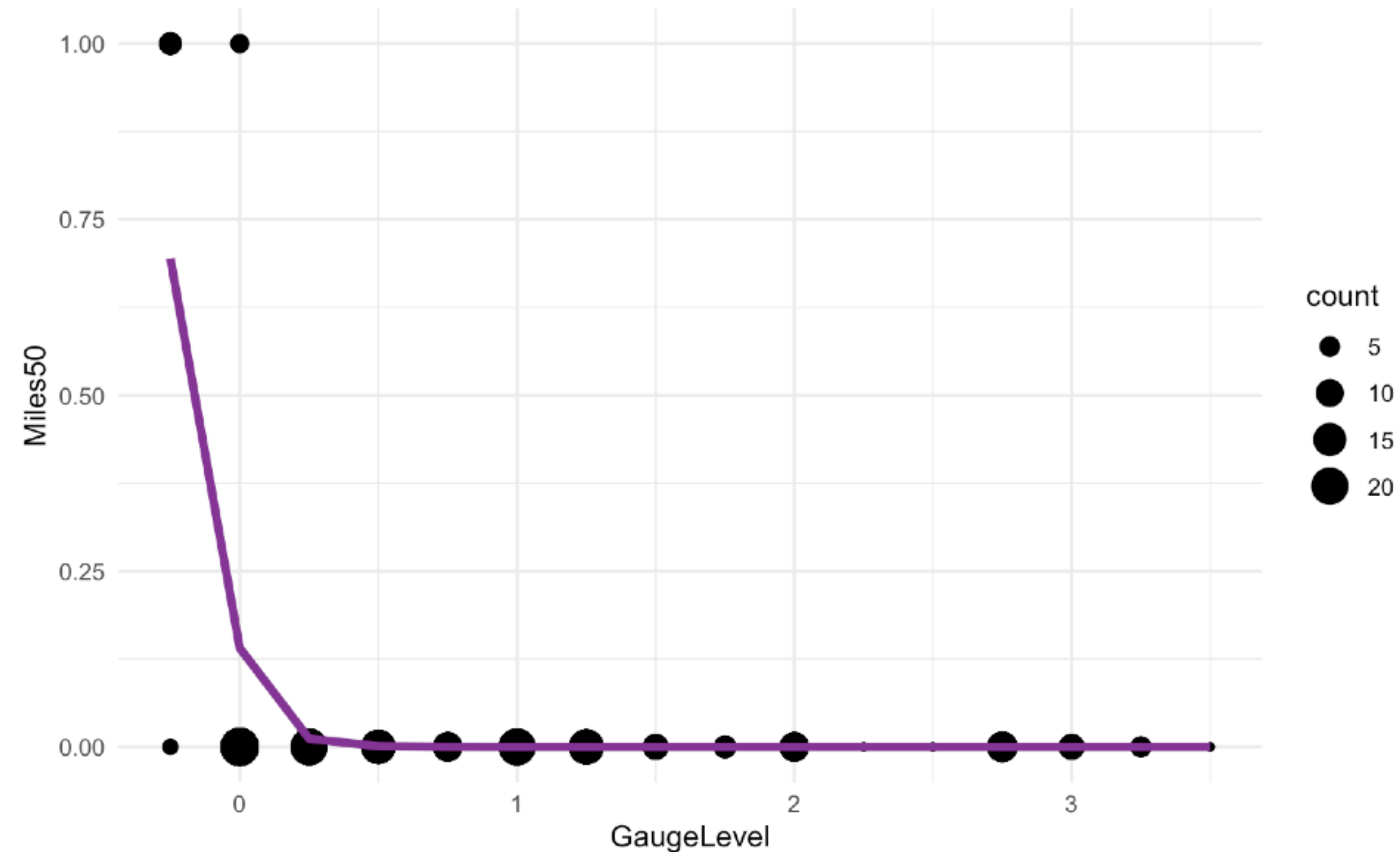
- GaugeLevel
- MilesRemaining converted to  $\leq 50$  miles remaining

Pros:

- Easy to understand
- Relatively accurate

Cons:

- Almost the same as the GaugeLevel
- You either run out of gas or you don't...
  - MilesRemaining is  $\leq 50$  at  $-.25$  GaugeLevel



$$\text{Miles50} = \frac{.095}{\text{GaugeLevel} + .267} - 1$$

Accuracy  $\approx 95.93\%$

# Model Comparisons