Simple Decision Tree

MilesRemaining ~ GaugeLevel + Light + Distance

Uses:

- All available variables
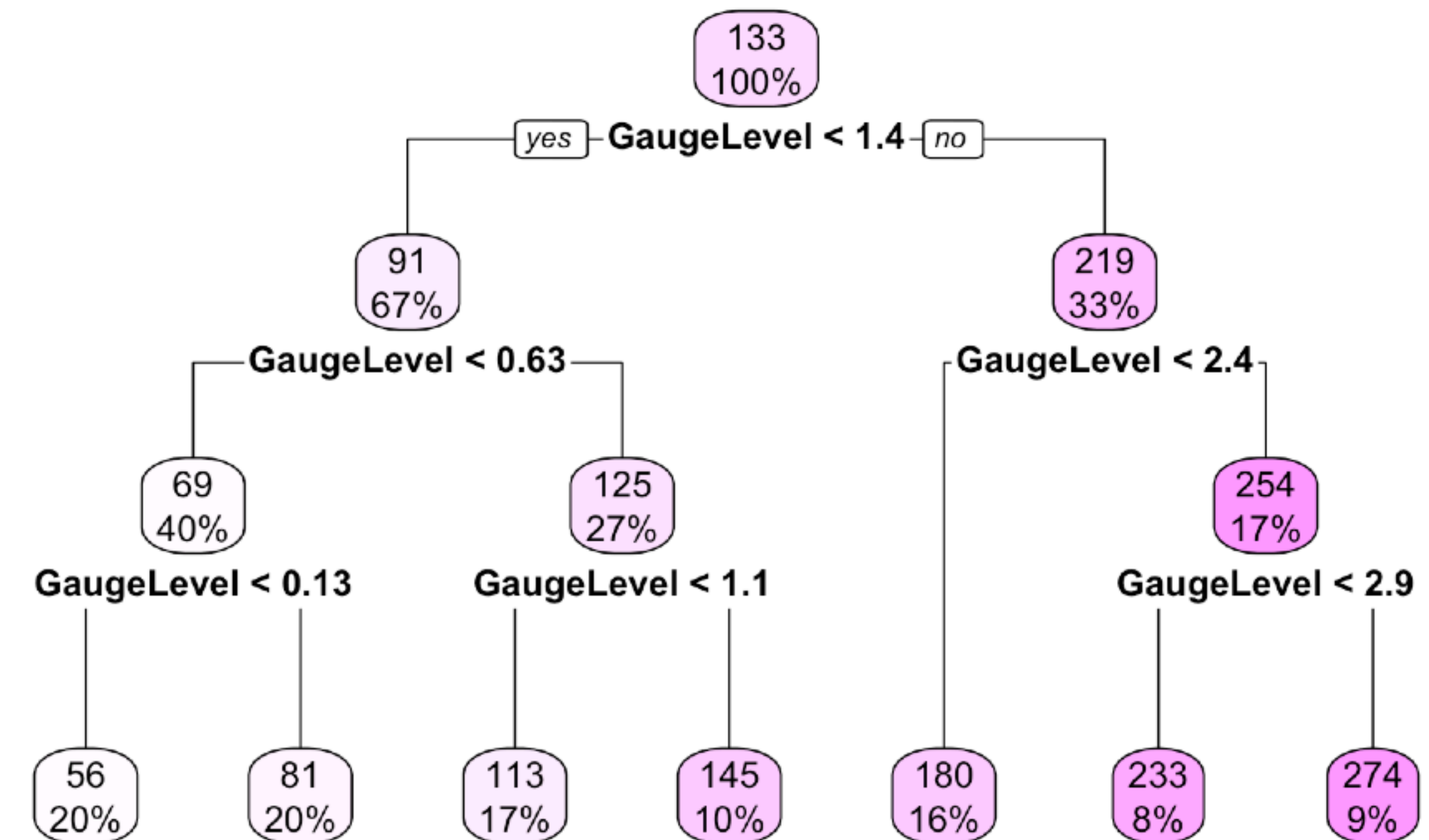 - The model only actually uses GaugeLevel
- 1 tree

Pros:

- Easy to understand
- Easy to execute

Cons:

- Could be better
- Distance + GaugeLevel implies MPG
- A little bit of memorization

RMSE ≈ 15.18

Random Forest

MilesRemaining ~ GaugeLevel + Light + Distance
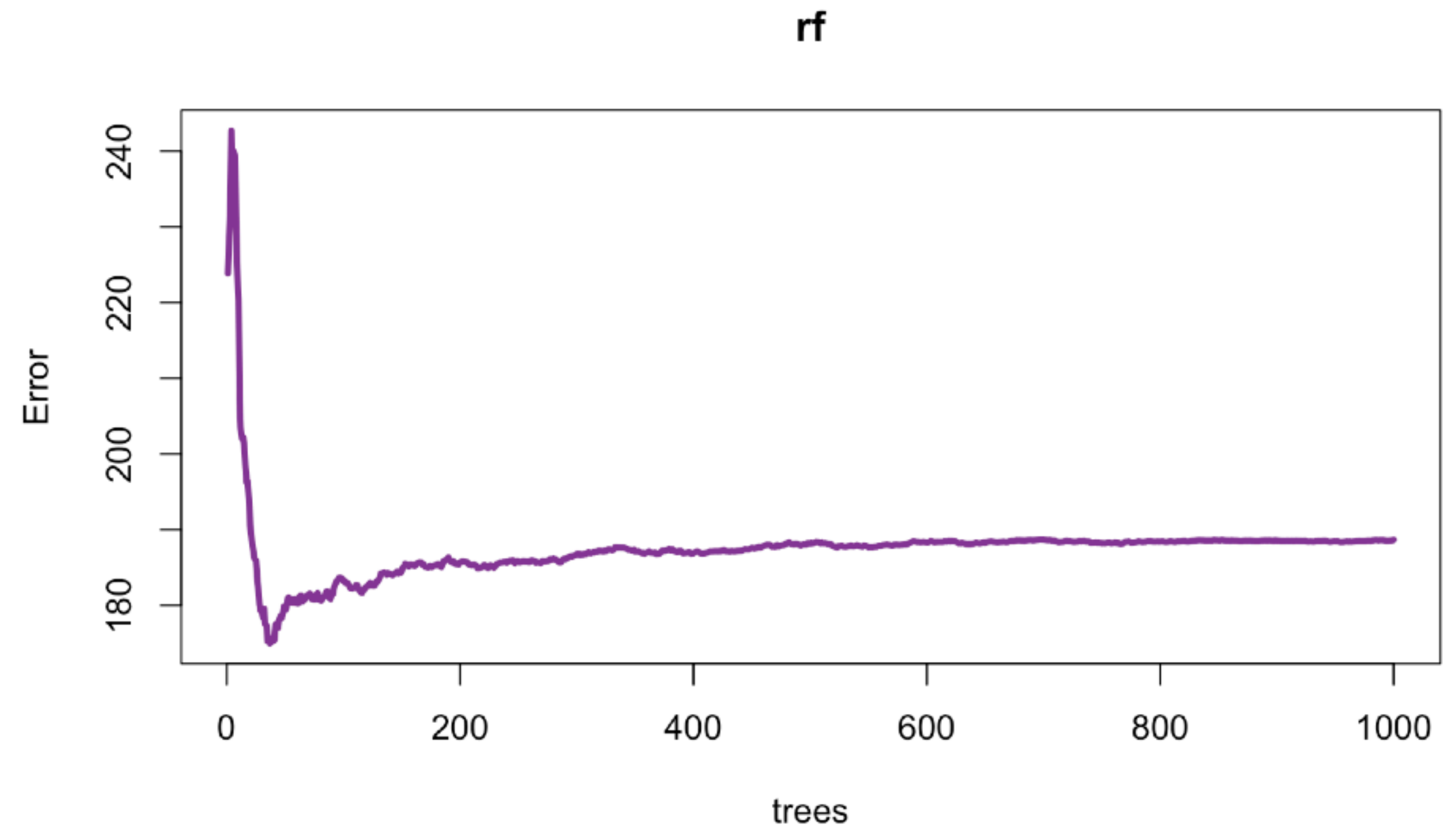
Uses:

- All available variables

- 1000 trees

Pros:

- Very accurate

- Not computationally expensive

Cons:

- Not easy to do on the fly

- Difficult to communicate

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RMSE ≈ 7.3