Calorie Predictor Report

# 1. Features Used

Mandatory: protein, carbohydrate, total\_fat, serving\_weight, calories

Optional: saturated\_fat, fiber, sugar, sodium

# 2. Results

|  |  |  |  |
| --- | --- | --- | --- |
| Model | RMSE | MAE | R² |
| HGB | 13.80 | 7.36 | 0.993 |
| Ridge | 12.12 | 6.19 | 0.995 |
| Blend | 11.78 | 6.10 | 0.995 |

# 3. FDA Comparison

The following graph shows the comparison between model metrics and FDA's 20% calorie-label tolerance.