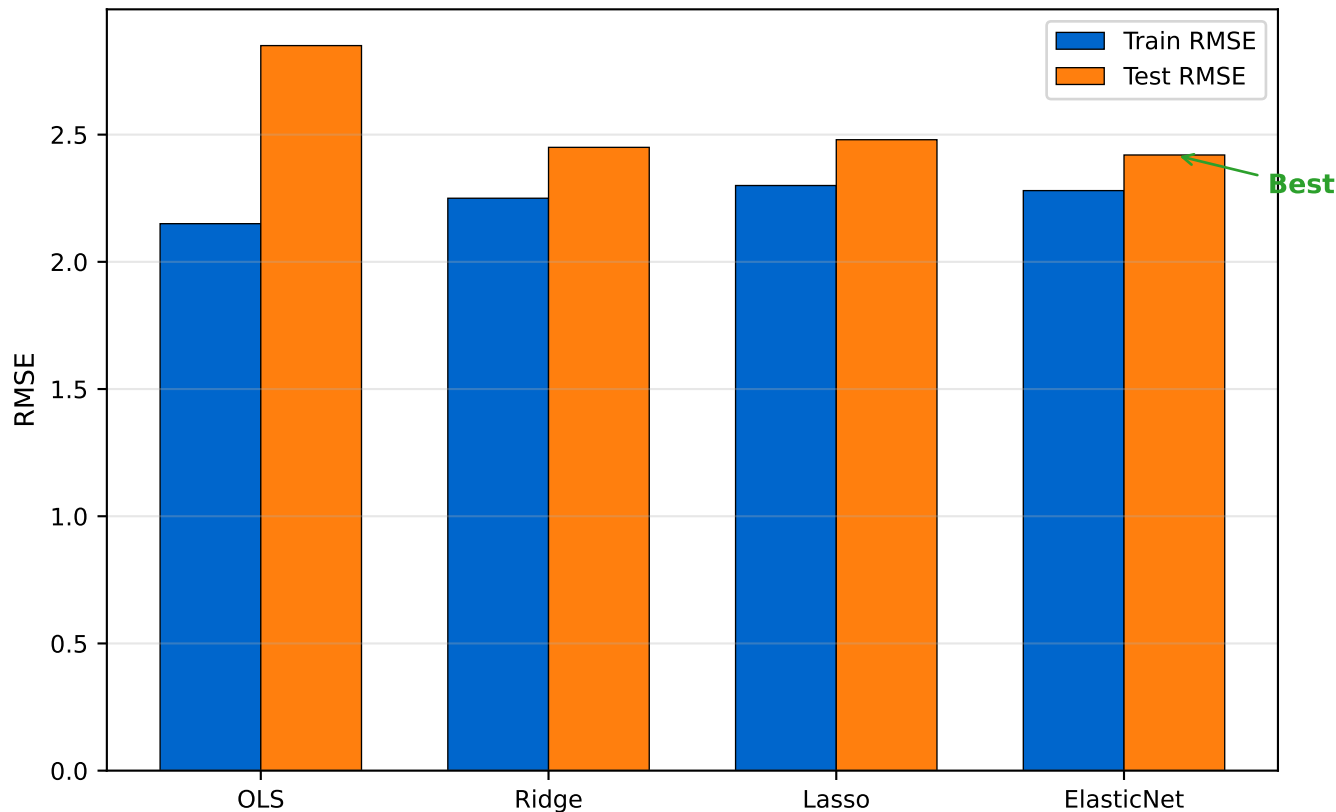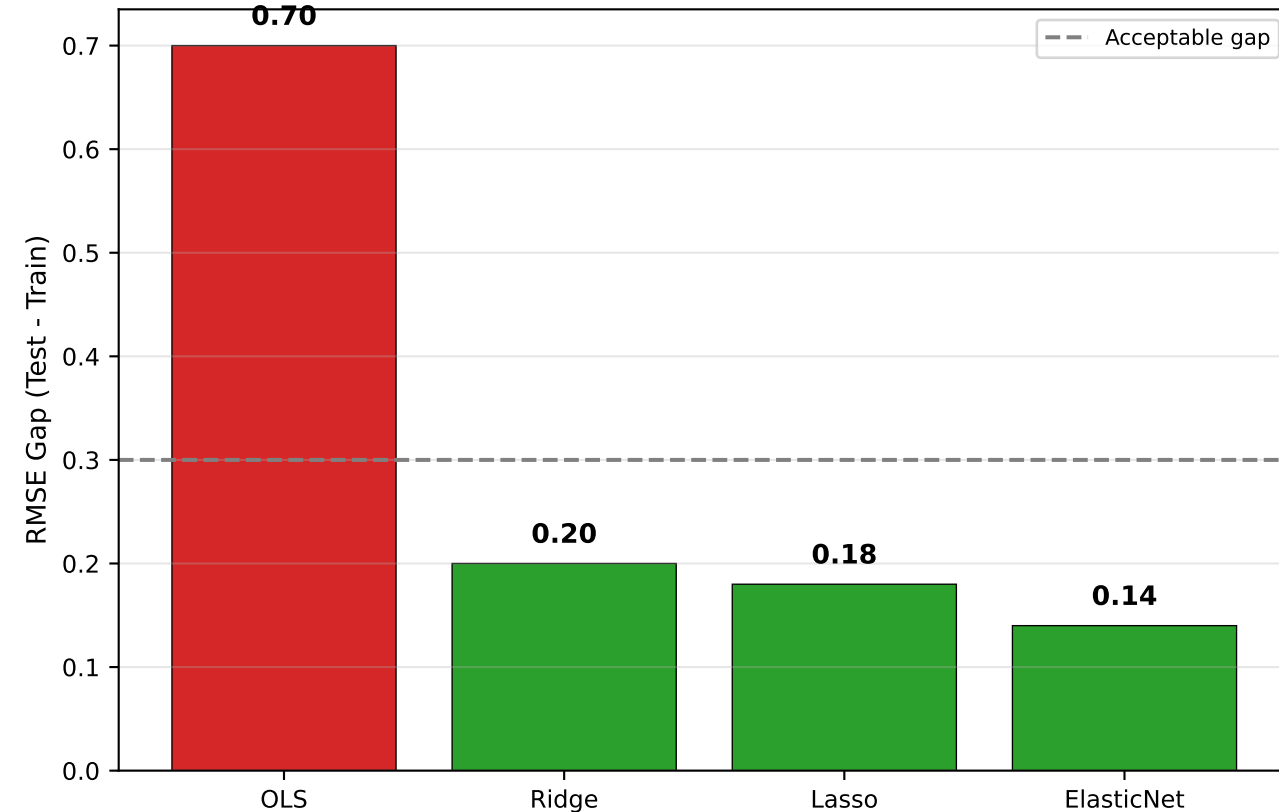**Model Comparison: Choosing the Best Model**
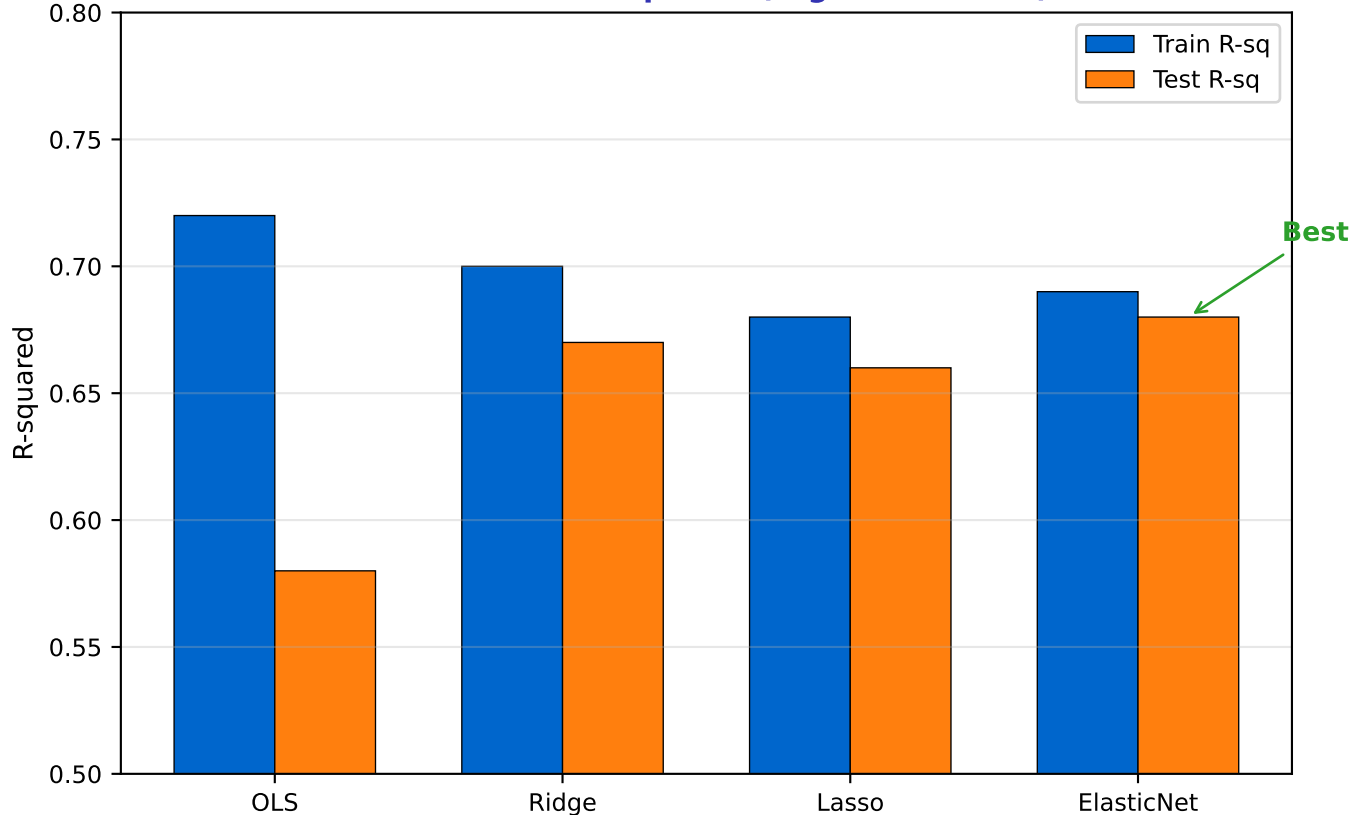
Train vs Test RMSE (Lower is Better)

Overfitting: Test-Train Gap

Train vs Test R-squared (Higher is Better)

Selection Summary

```
MODEL COMPARISON SUMMARY

Model        Test RMSE  Test R-sq  Features  Verdict
--------------------------------------------------------
OLS          2.85       0.58       10        Overfits
Ridge        2.45       0.67       10        Good
Lasso        2.48       0.66       6         Good (sparse)
ElasticNet   2.42       0.68       8         Best

SELECTION CRITERIA:

1. PRIMARY: Test set performance (not train!)
   - Lower RMSE / Higher R-sq on test data

2. SECONDARY: Generalization gap
   - Small gap = model generalizes well
   - Large gap = overfitting

3. TERTIARY: Interpretability
   - Fewer features = more interpretable
   - Lasso/ElasticNet for feature selection

WINNER: ElasticNet
- Best test R-sq (0.68)
- Best test RMSE (2.42)
- Reasonable # features (8)
```