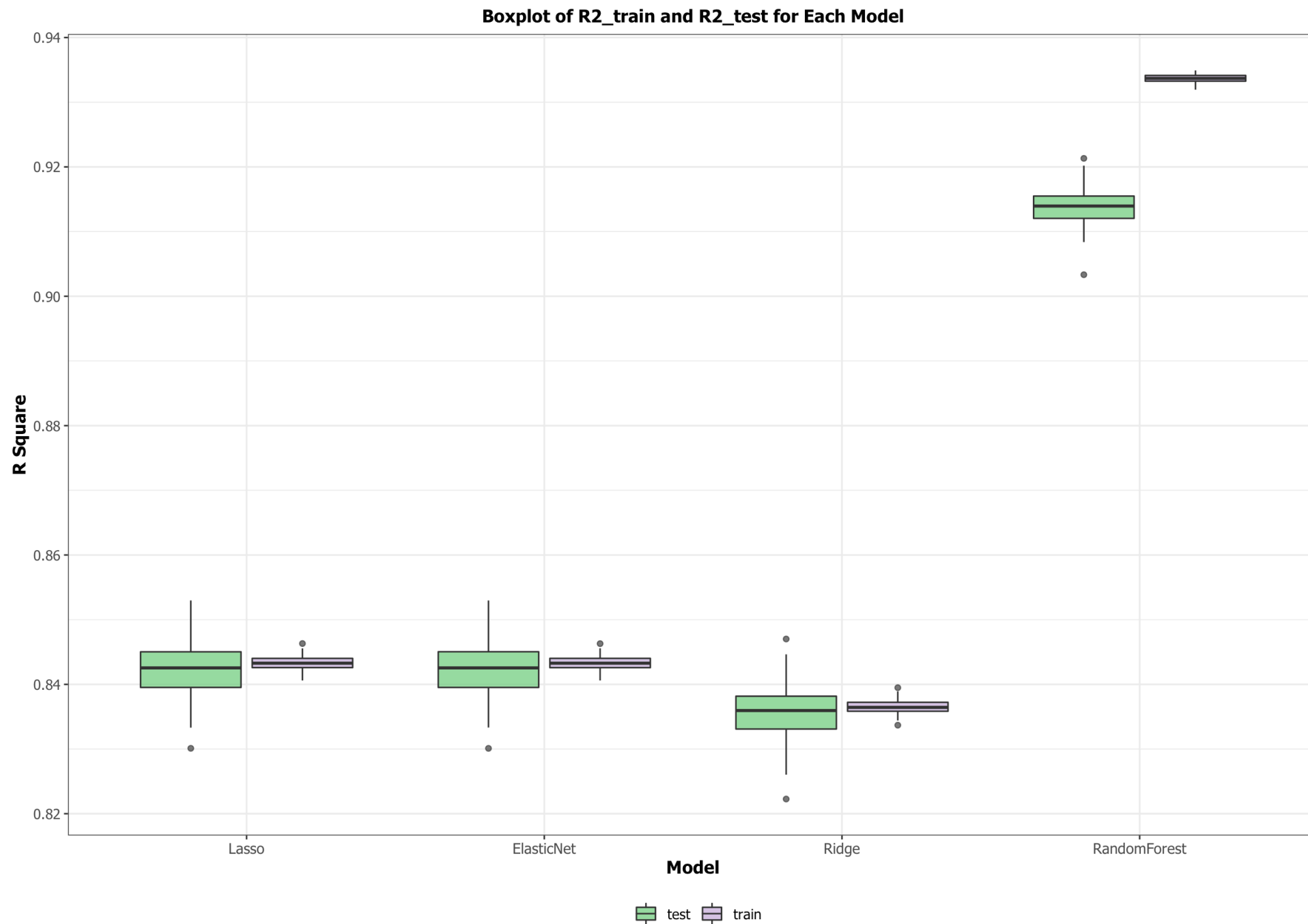


FIFA 2019 Football Player Value Prediction Project

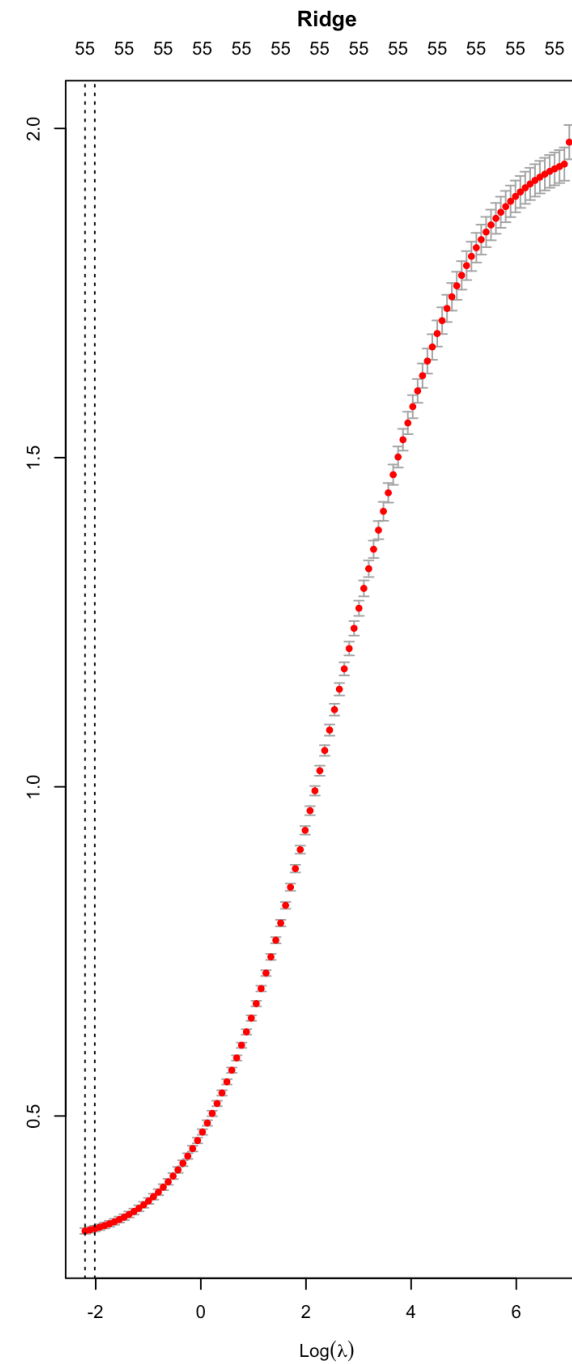
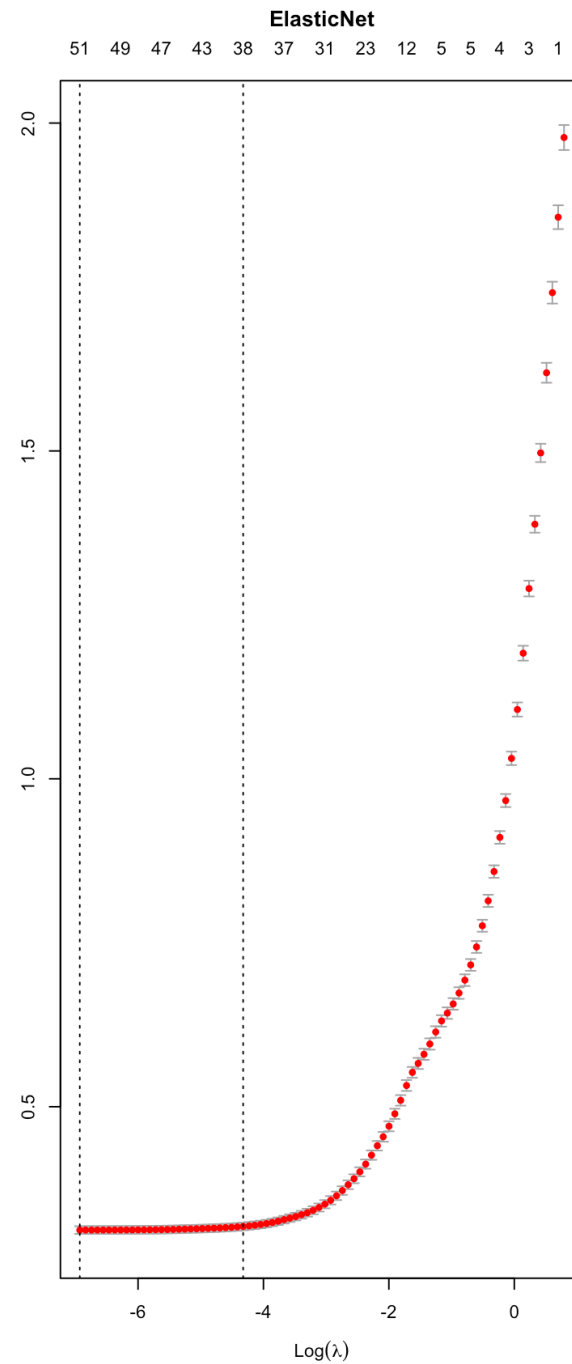
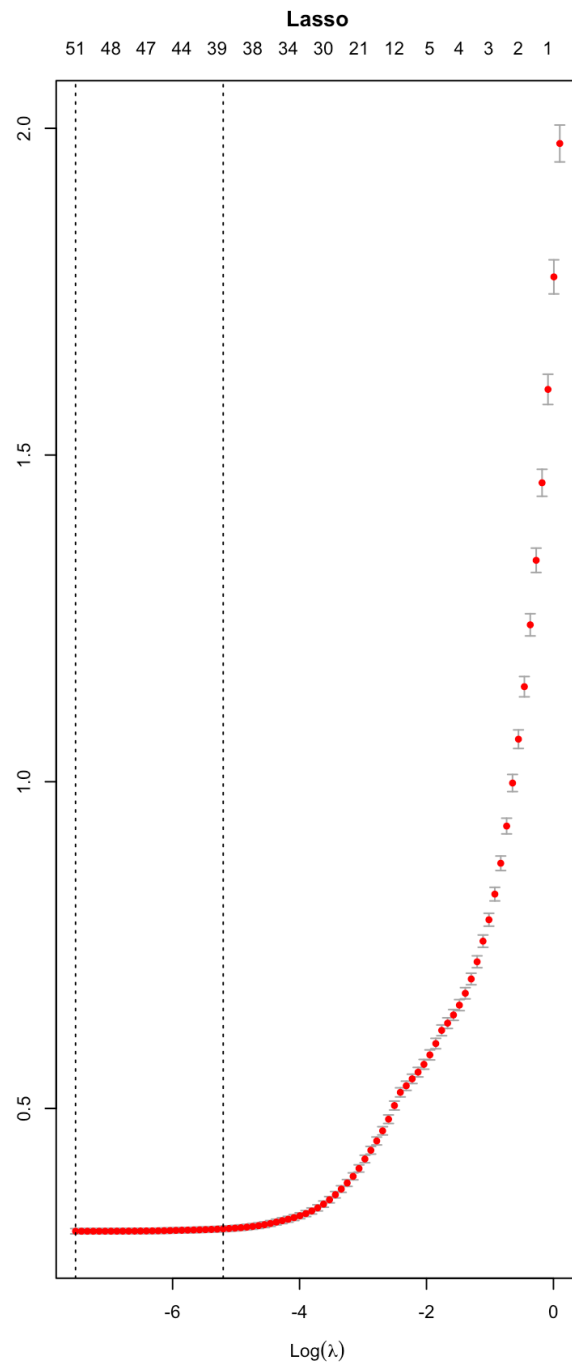
Description of Data:

- # of Observations: 18,207 (17,907 after data wrangling)
- # of Features: 88 (55 after feature engineering)
- Response: Player Value
- Predictors: Demographics, Playing-related, Skill Scores, etc.
- Models: Lasso, Elastic Net, Ridge, Random Forest

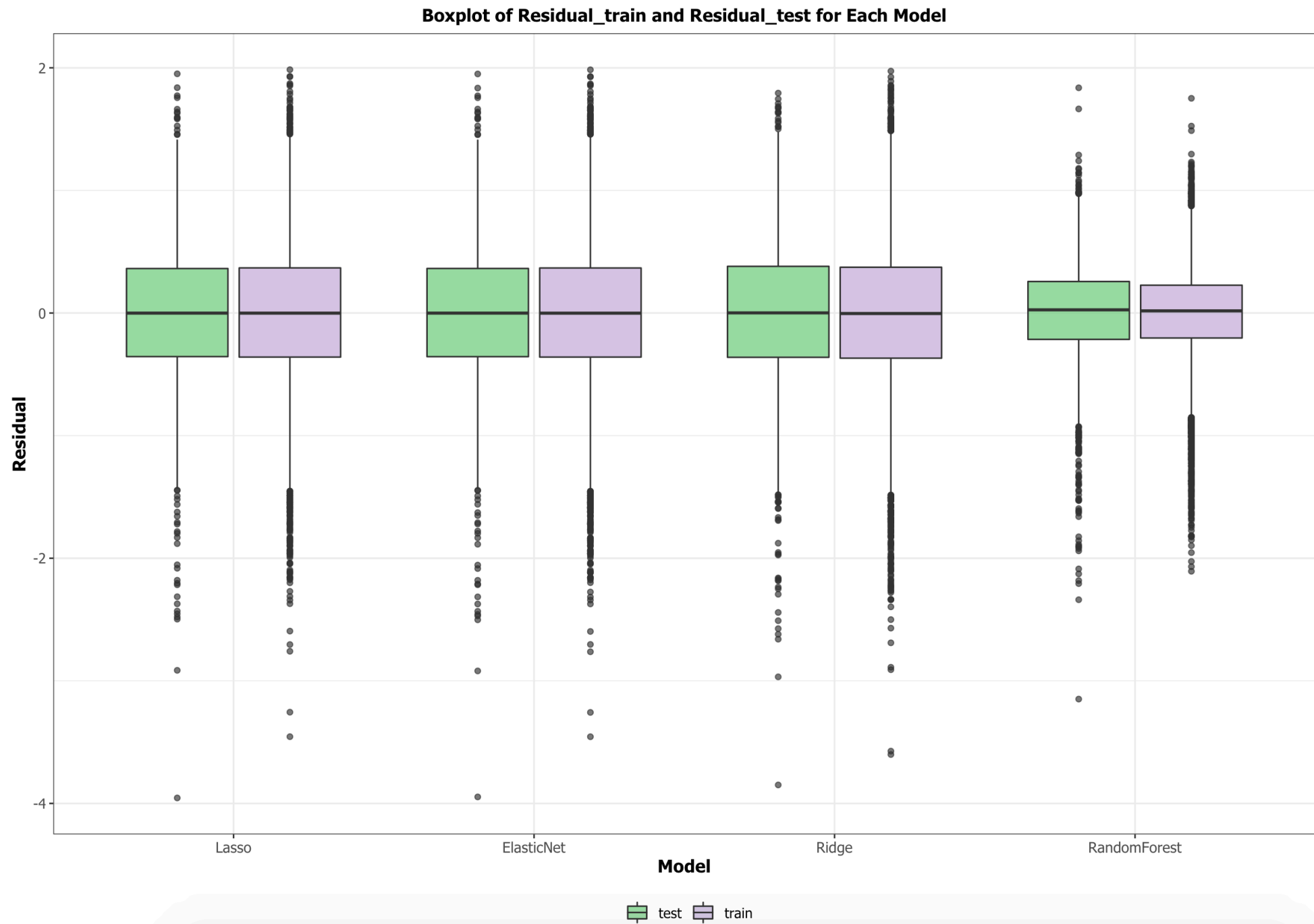
Side-by-side Boxplot of R^2_{test} , R^2_{train}



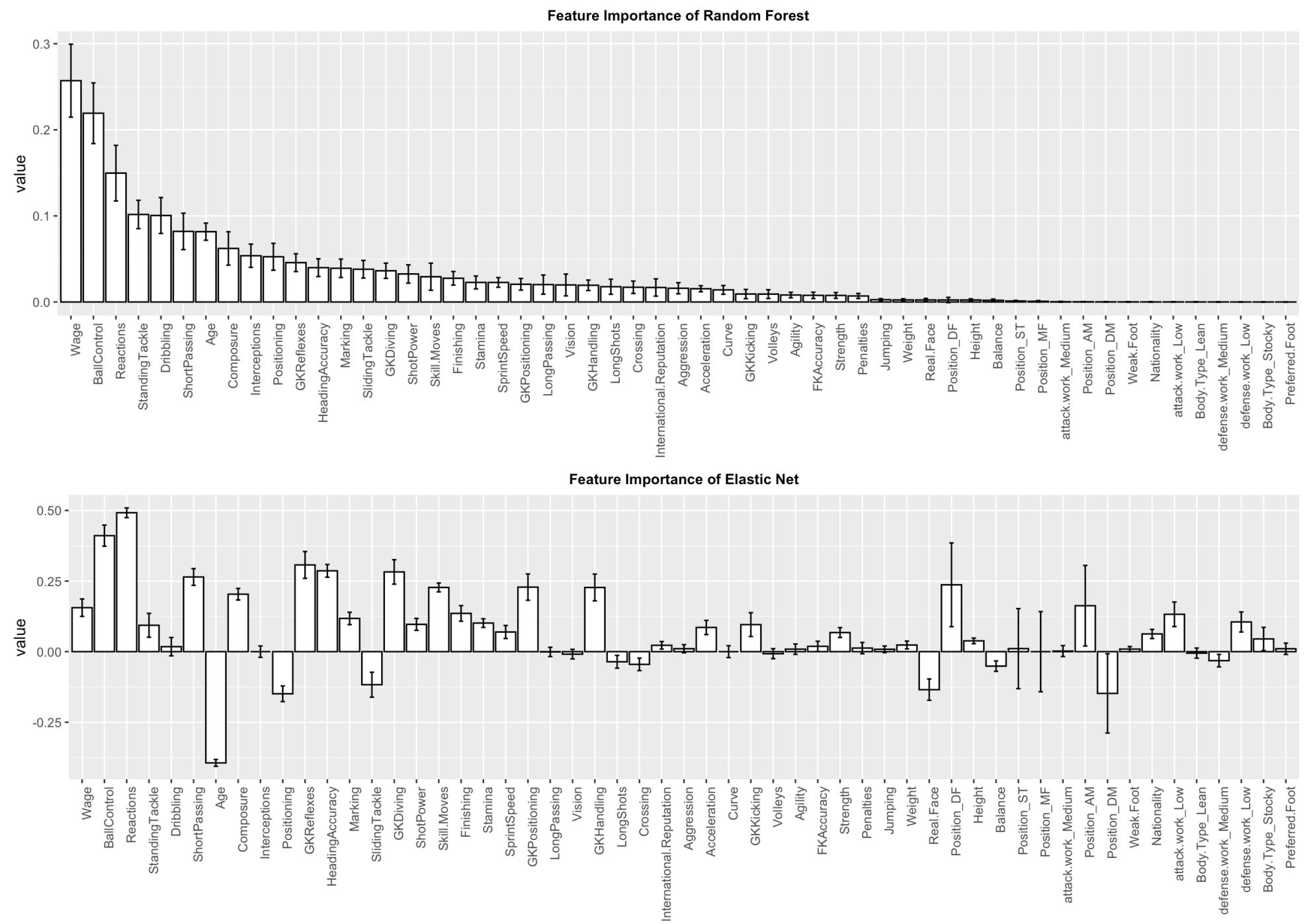
CV Curves for Three Models



Side-by-side
Boxplot of
Train & Test
Residuals



Bar-plots of Estimated Coefficients



Performance & Efficiency of Models

Model	Performance (R^2)	Efficiency (Time)
Lasso	0.842	0.85
Elastic Net	0.842	0.85
Ridge	0.836	0.95
Random Forest	0.914	12.07