

Predicting Peak Salary From Minor League Statistics

Mitchell Lee

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Baseball 101



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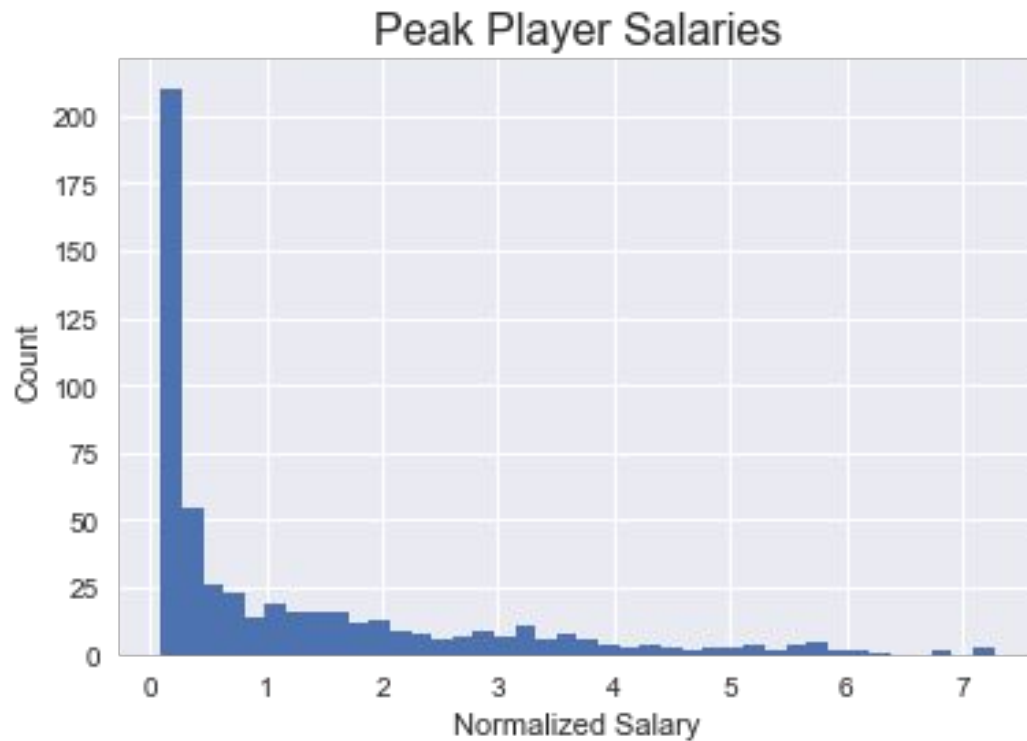
Baseball 101



Question

Can I predict a major leaguer's peak salary based on his minor league performance?

The Data



Data Processing

- All players in majors between **1990** and **2016**
(*excluding 1994*)
- Separated Minor League and Major League Stats
- Aggregated minor league career
- Merged data with major league peak salary
- Normalized salary for inflation
- ~1300 Players remaining



BeautifulSoup

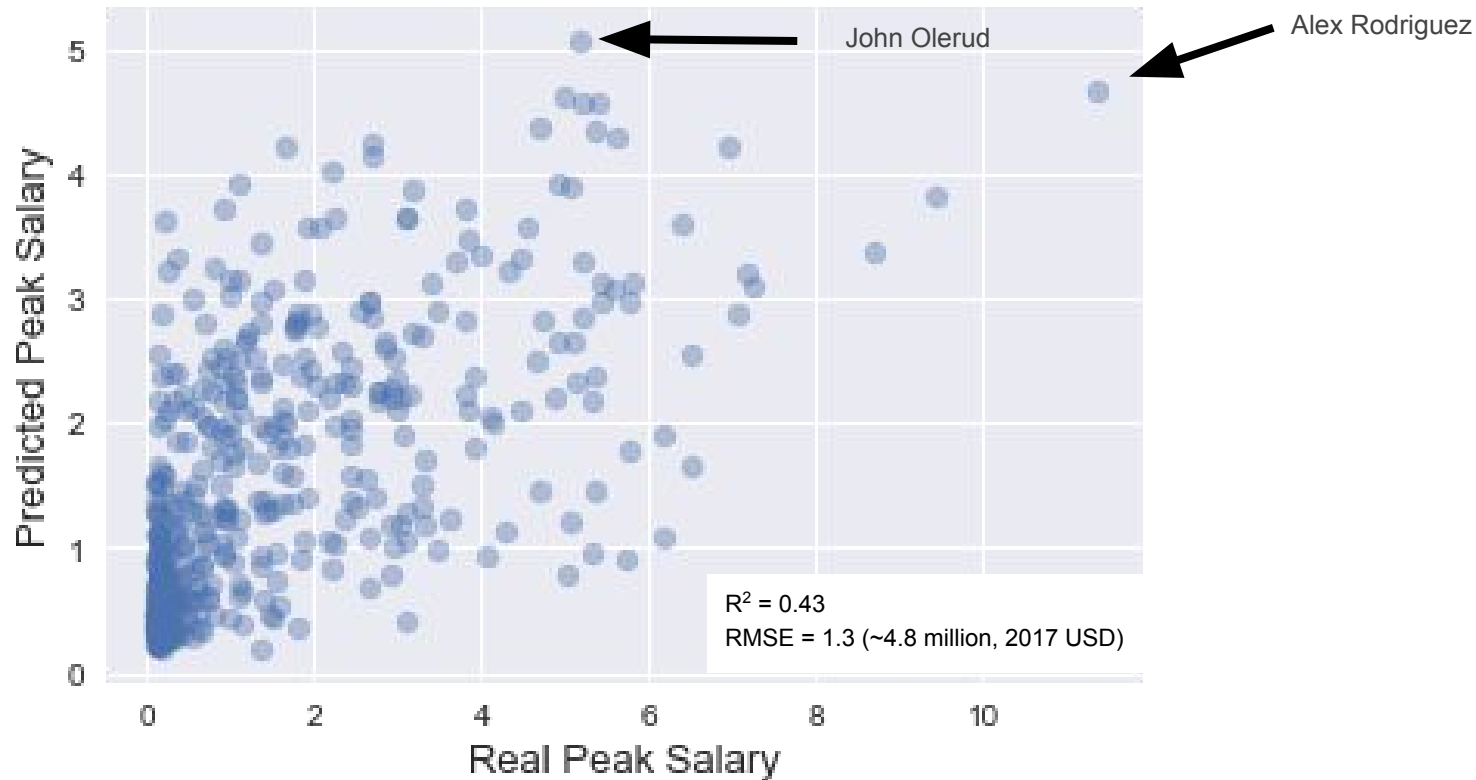


Models

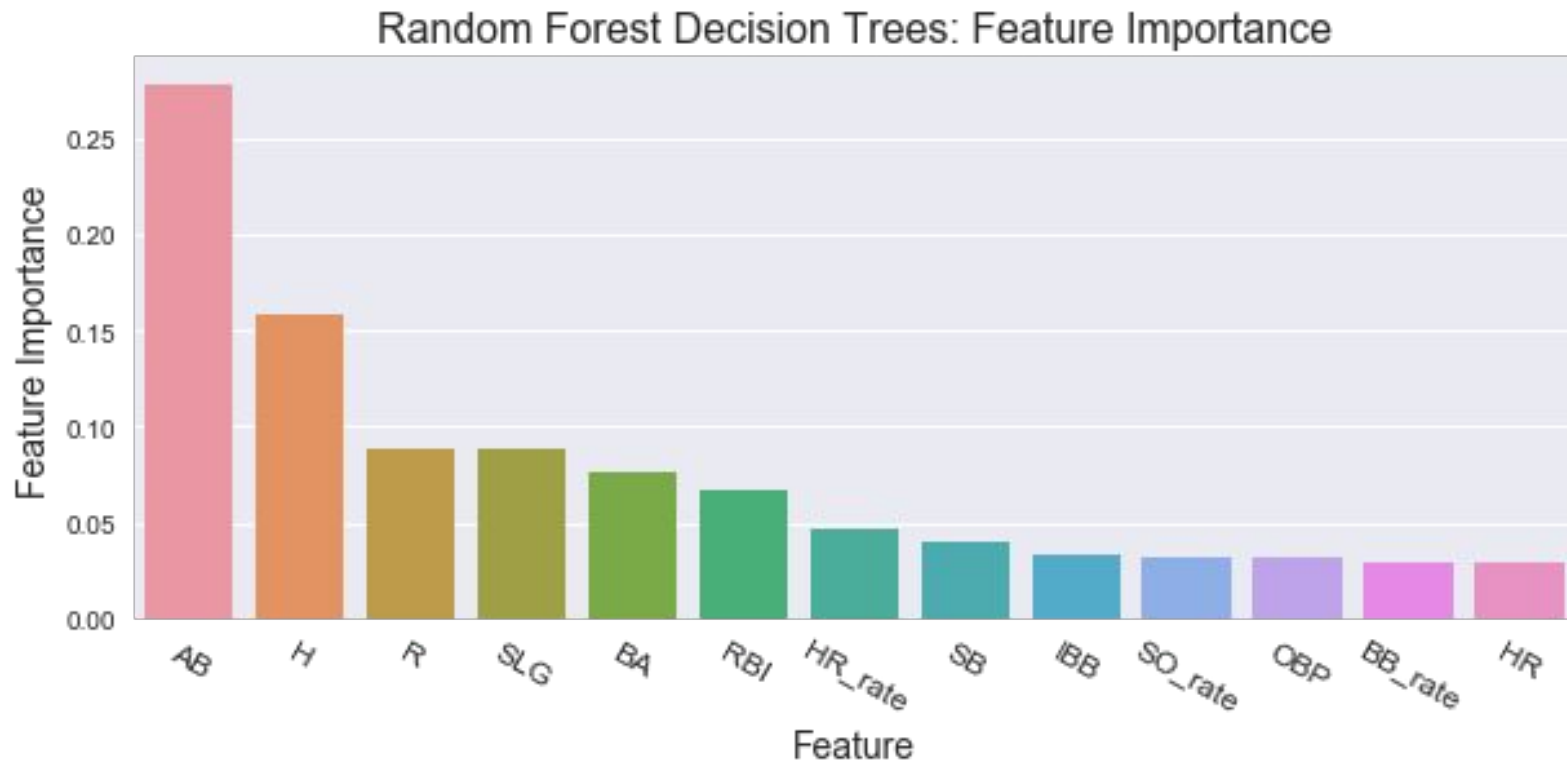
- Lasso CV
- Random Forest
- Gradient Boosted Trees

Results

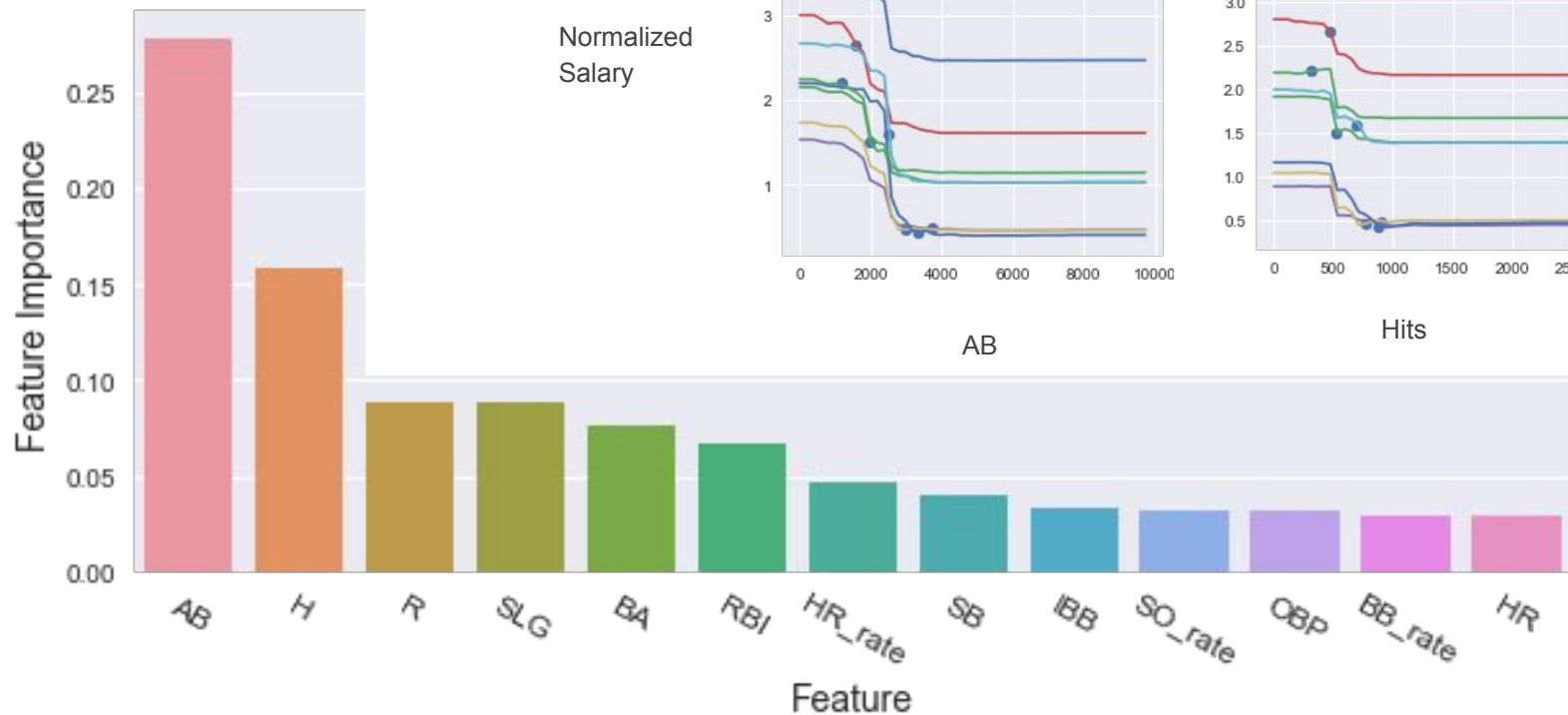
Predicted vs Actual Peak Salary
Based on Random Forest Decision Trees



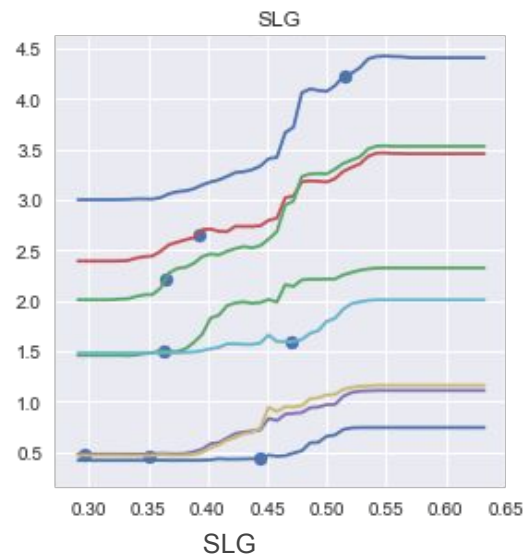
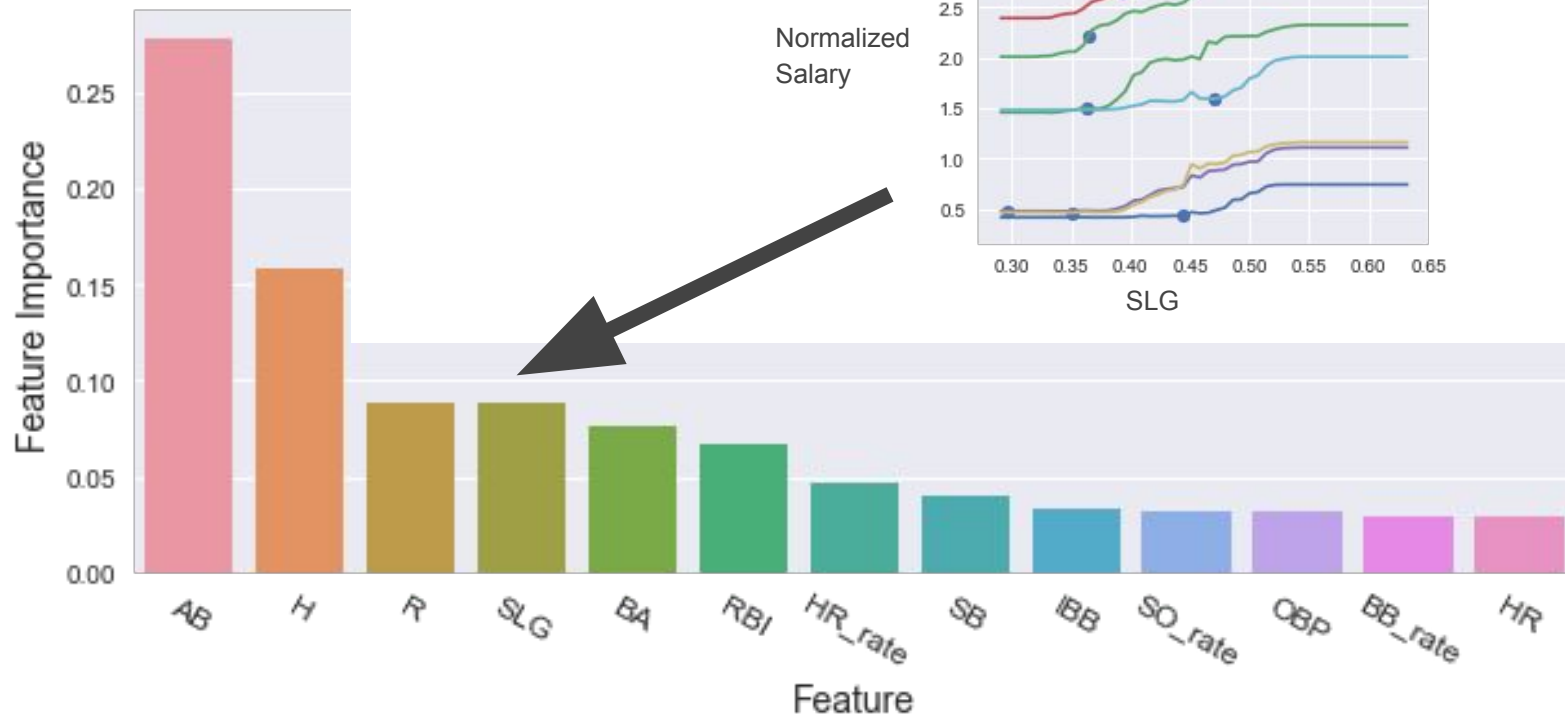
Results



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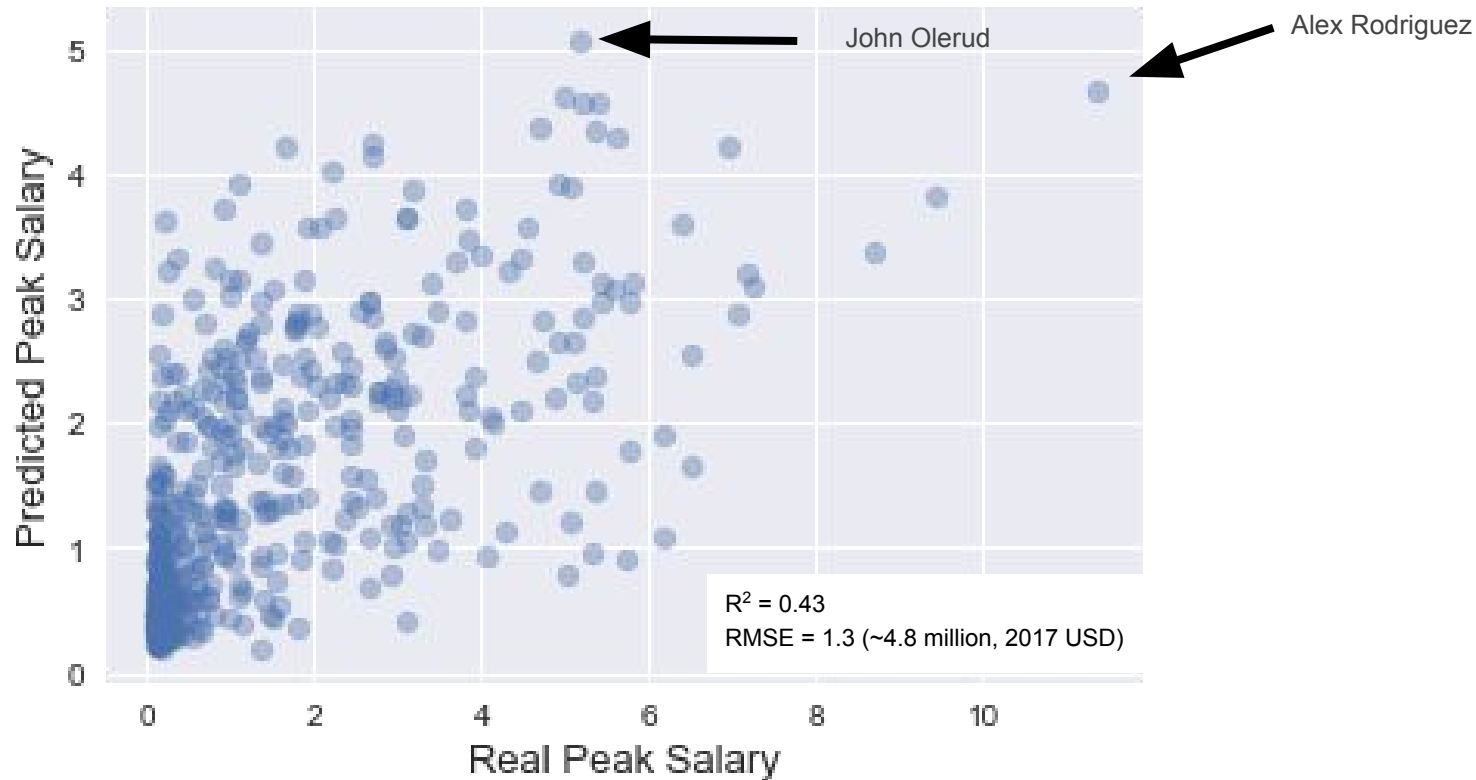


Results



Results

Predicted vs Actual Peak Salary
Based on Random Forest Decision Trees



Thank you

