

College Scorecards

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Now We Know Exactly How Much Society Values Education

What are College Scorecards

Launched in 2015, College Scorecards summarize:

- Cost,
- Graduation Rates,
- Employment Rates,
- Loan Rates, and
- Default Rates,

with nearly 2000 parameters!



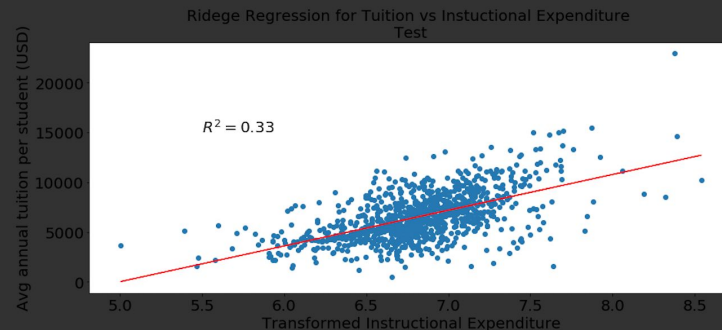
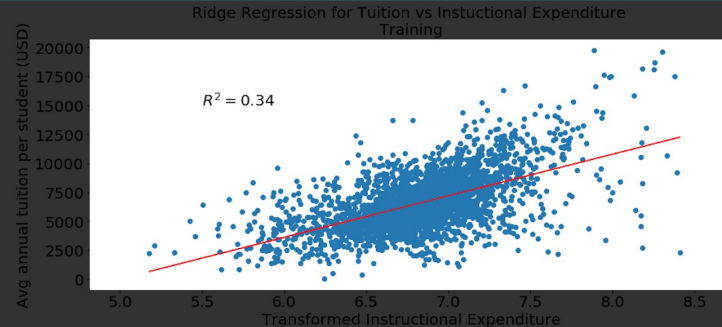
Investment or Money Trap



- Relationships between tuition and student learning expenditures
- Connections between default rates and Private vs Public
- Predict change in tuition over the next 10 years

Linear Regression

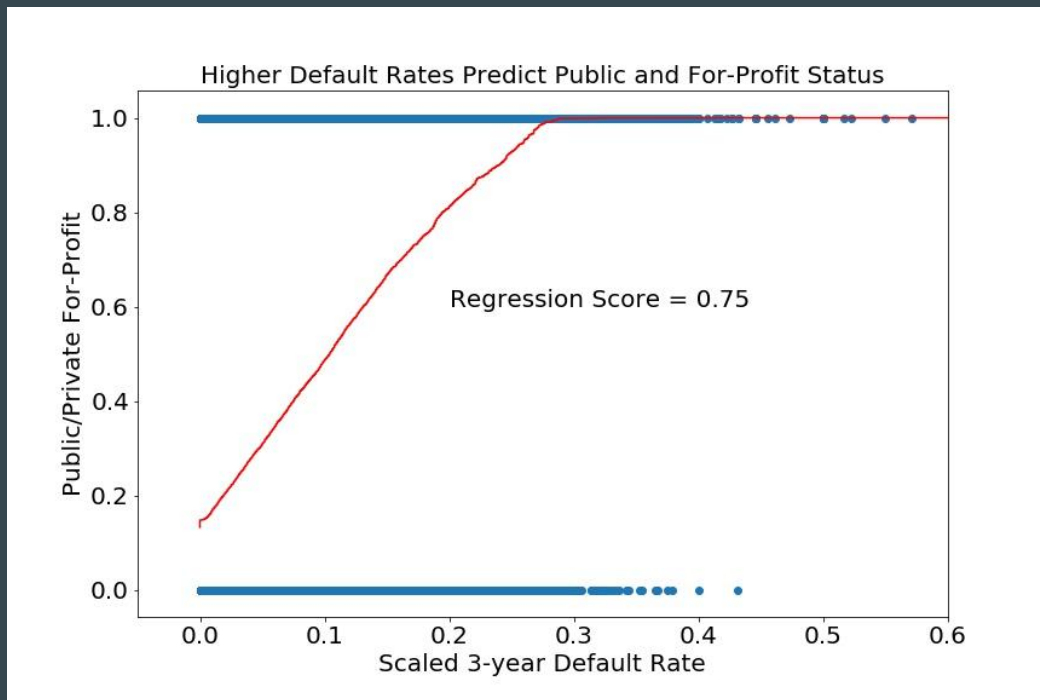
- High faculty pay is correlated with average tuition.
- Tuition dollars are often times not spent on faculty.



Last known picture of when code worked

Logistic Regression

- High student loan default rates distinguish Public and Private For-Profit colleges from Private Non-Profit



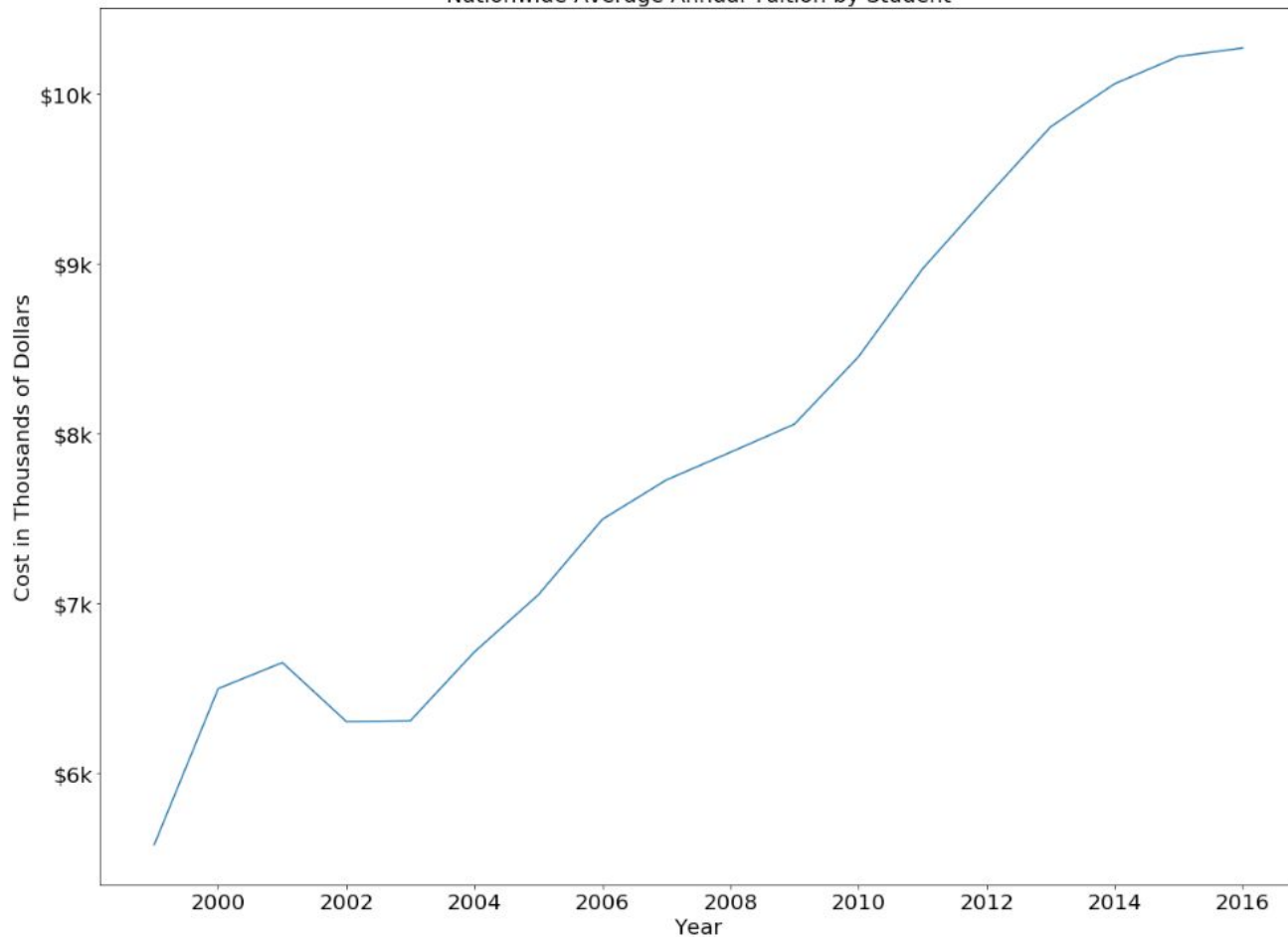
Time Series Analysis

About the data:

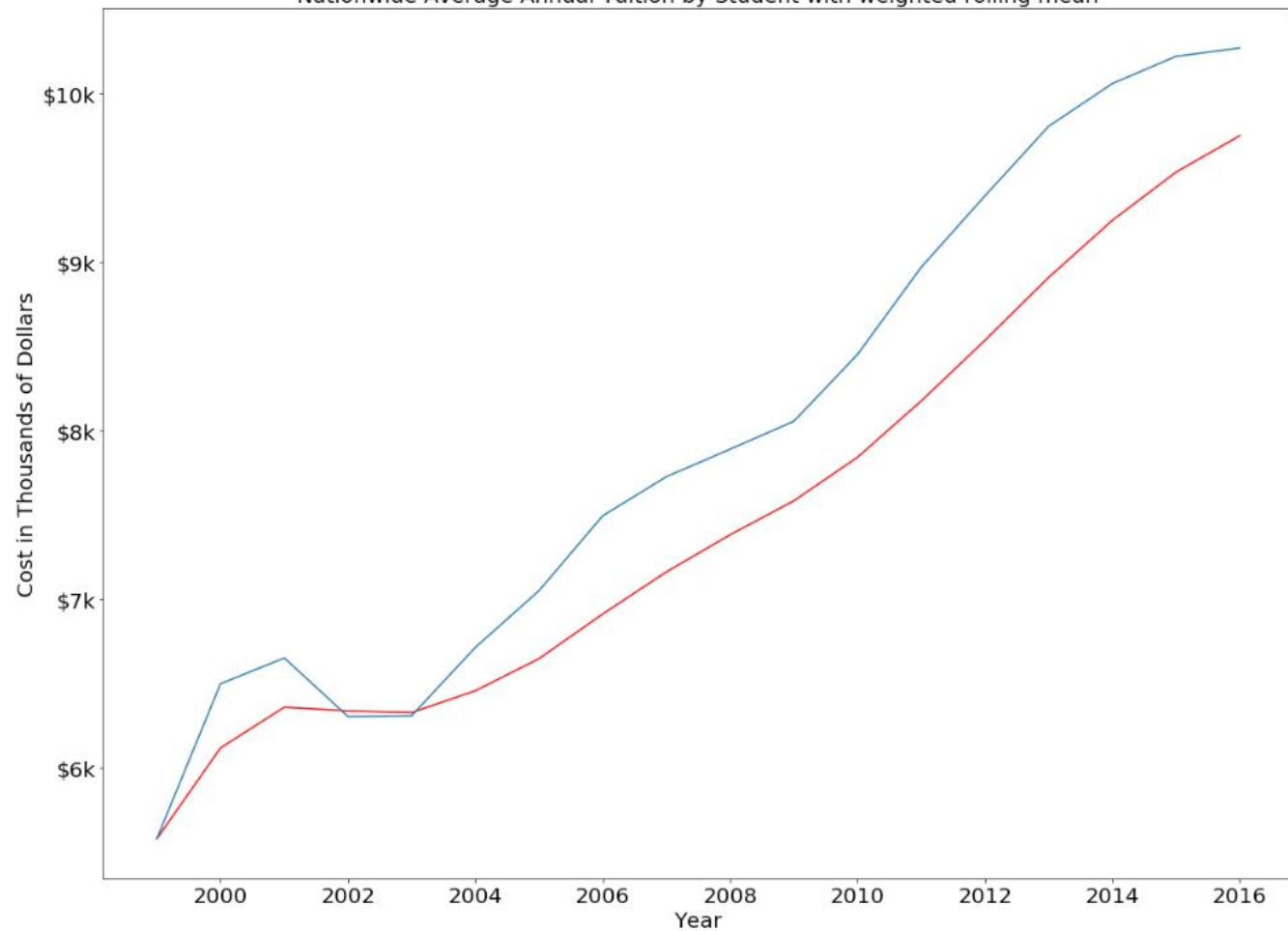
- Data points are the average cost for a full time student to attend school for one year
- Used 99th percentile data because the top 1 percentile looks like:

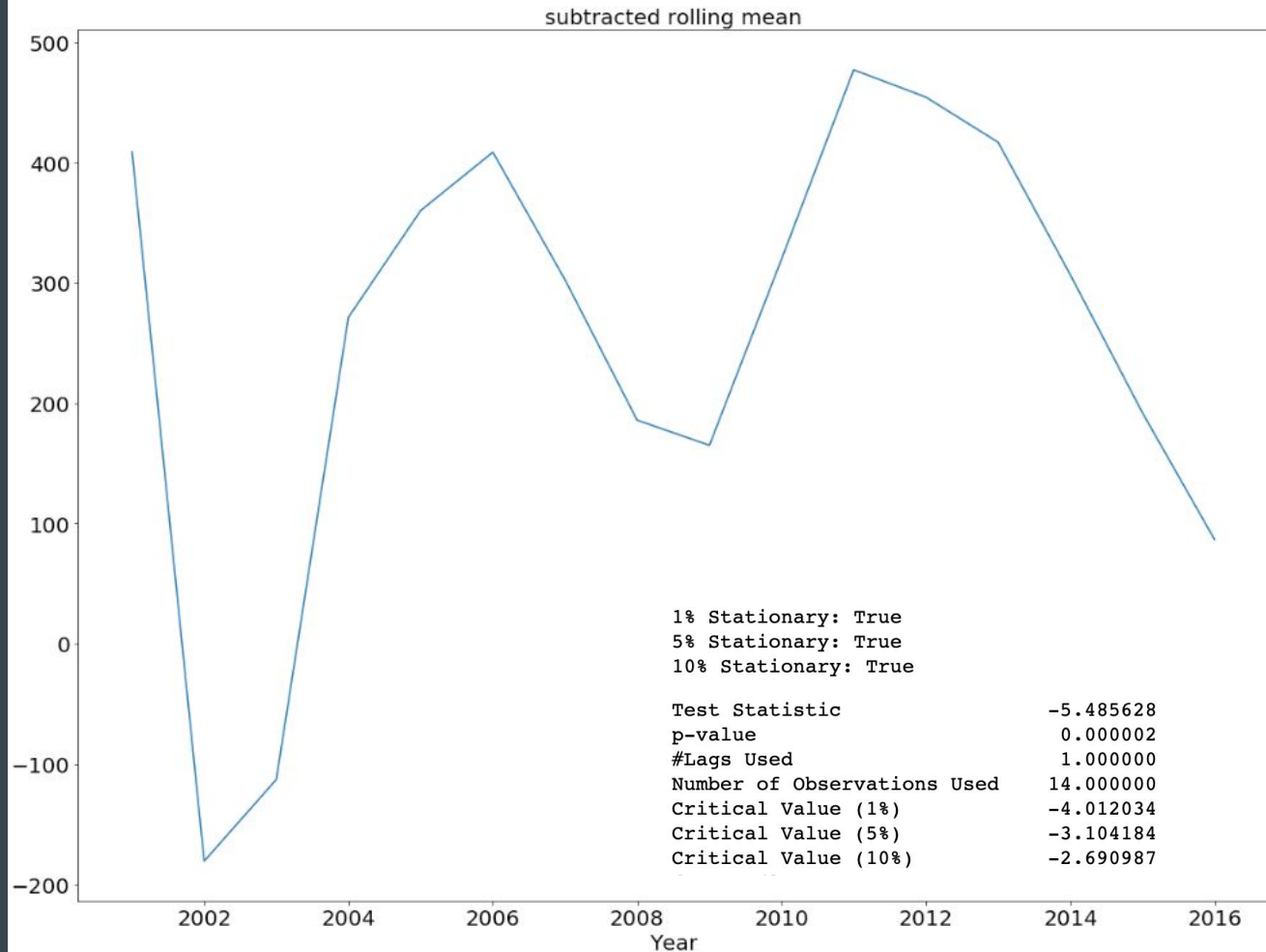
Brooks College	26670163.0
San Joaquin Valley College-Visalia	11932462.0
Everest University-Lakeland	8969462.0
University of Phoenix-Central Valley Campus	7014195.0
Platt College-Arizona Automotive Institute Arizona	6523168.0
Lake Forest Graduate School of Management	6395326.0
Le Cordon Bleu College of Culinary Arts-San Francisco	6194095.0
Le Cordon Bleu College of Culinary Arts-Pasadena	5603339.0
Antioch University-PhD Program in Leadership and Change	5438695.0
Remington College-New Orleans Campus	5060030.0
Star Career Academy-Brick	4530500.0
Maranatha Baptist University	4388630.0

Nationwide Average Annual Tuition by Student

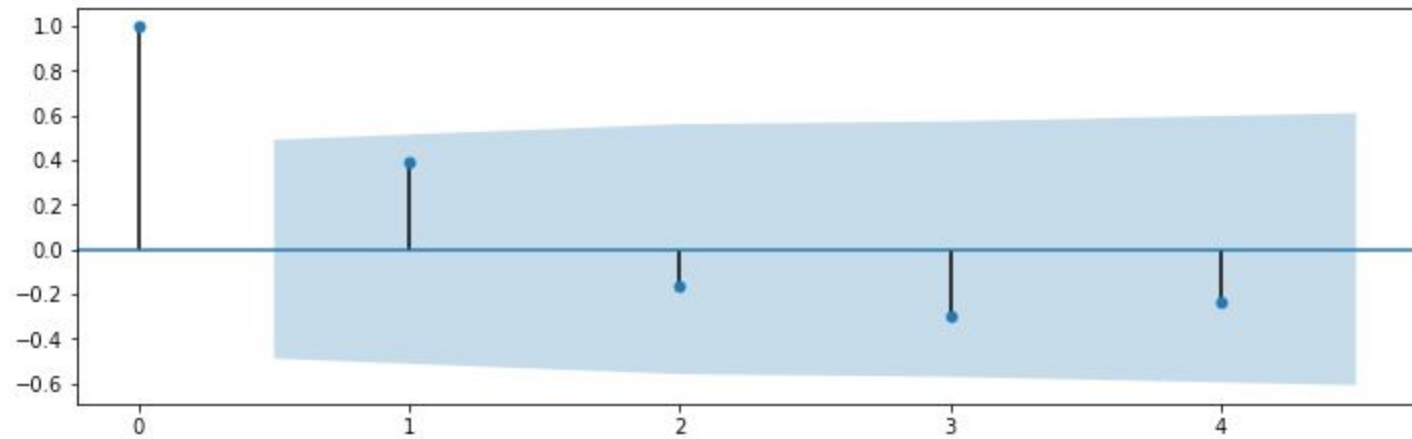


Nationwide Average Annual Tuition by Student with weighted rolling mean

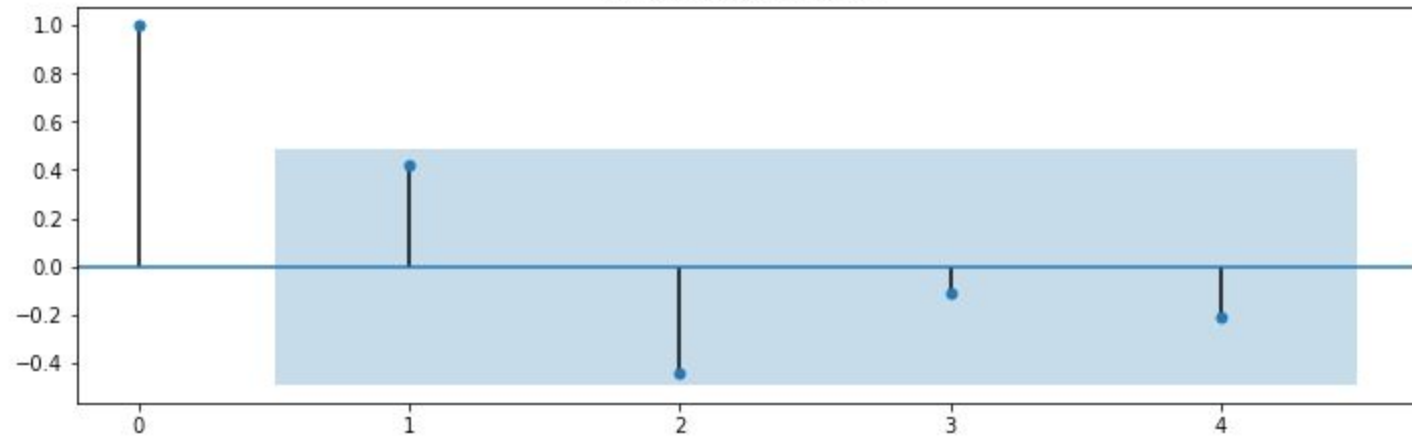




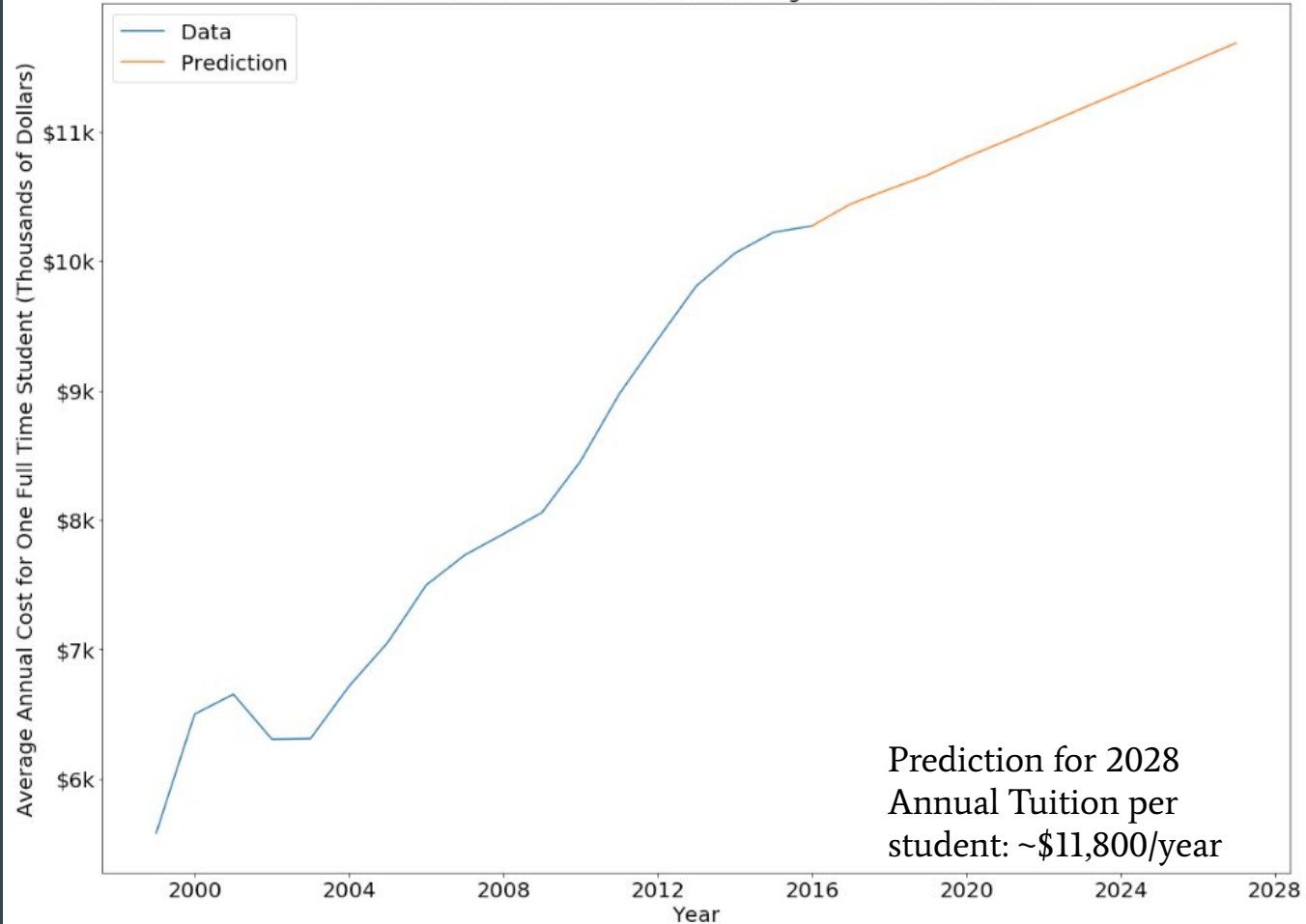
Autocorrelation



Partial Autocorrelation



ARIMA Time Series Prediction on Average Nationwide Tuition



Summary

There are too many parameters for the average college applicant to determine what “good” and “bad” is.

More analysis needs to be conducted to identify correlations between seemingly obscure data and outcomes for students and guardians.

