

# **ECO 310: Problem Set #9**

Due: April 26, 2016

**Kevin Liu**

## Problem 1

	<b>Regression Type</b>	<b><math>r^2</math></b>	<b>RMSE</b>
	Ordinary Least Squares	0.76	4005.25
	K Nearest Neighbors	0.42	6251.03
	Ridge	0.61	5087.40
	Lasso	0.67	4716.40
	Elastic Net	0.37	6514.98
	Decision Tree	0.04	8042.44
	Random Forest	0.35	6628.65

  

<b>Rank</b>	<b>Institution Name</b>	<b>Residual</b>
1	Rutgers University-Newark	-12387.28
2	Pennsylvania State University-Penn State Lehigh	-11728.43
3	Pennsylvania State University-Penn State York	-11050.88
4	Rutgers University-Camden	-9411.65
5	Swedish Institute a College of Health Sciences	-8643.17
6	Florida National University-Main Campus	-8355.56
7	Baker College of Flint	-8024.05
8	SUNY at Purchase College	-7550.39
9	South University-The Art Institute of Dallas	-7488.18
10	Oklahoma City University	-7364.77

  

<b>Rank</b>	<b>Institution Name</b>	<b>Residual</b>
1	Westwood College-Los Angeles	12259.81
2	Fairfield University	11905.85
3	Savannah State University	11050.12
4	Prescott College	8524.98
5	Auburn University	6719.69
6	Pacific Oaks College	6449.84
7	Rose-Hulman Institute of Technology	6331.67
8	Silver Lake College of the Holy Family	5702.42
9	Daemen College	4529.33
10	University of Colorado Boulder	4446.70

  

<b>Rank</b>	<b>Institution Name</b>	<b>Residual</b>
1	Eastern Connecticut State University	-30900.00
2	Southern University and A & M College	-26800.00
3	Auburn University	-26000.00
4	Savannah State University	-23600.00
5	Touro College	-20116.67
6	Hendrix College	-18692.31
7	California College of the Arts	-15392.31
8	Northwestern University	-15100.00
9	Valley Forge Christian College	-13338.78
10	Naropa University	-12325.00

<b>Rank</b>	<b>Institution Name</b>	<b>Residual</b>
1	Rose-Hulman Institute of Technology	31900.00
2	Butler University	21200.00
3	Bryan College of Health Sciences	18541.90
4	University of Oklahoma-Health Sciences Center	17803.13
5	Washington Adventist University	10862.69
6	Pace University-New York	10403.13
7	CUNY Bernard M Baruch College	9521.54
8	The University of Texas at Dallas	8821.54
9	Silver Lake College of the Holy Family	8820.00
10	Stony Brook University	8721.54
<b>Rank</b>	<b>Institution Name</b>	<b>Residual</b>
1	Naropa University	-20060
2	Florida National University-Main Campus	-16760
3	California College of the Arts	-16720
4	Metropolitan State University of Denver	-15960
5	Eastern Connecticut State University	-14940
6	Hendrix College	-14400
7	Prescott College	-13000
8	Thomas University	-10320
9	Westmont College	-9480
10	New York College of Health Professions	-9300