



Start-Tech Academy

# Results

## Logistic Regression

Coefficients:

	Estimate	Std. Error	z value	Pr(> z )							
(Intercept)	-3.786667	3.023162	-1.253	0.210369							
price	-0.289955	0.039074	-7.421	1.17e-13	***						
resid_area	0.040238	0.031089	1.294	0.195575							
air_qual	-6.689560	3.038370	-2.202	0.027687	*						
room_num	1.418795	0.333412	4.255	2.09e-05	***						
age	-0.002811	0.007611	-0.369	0.711843							
teachers	0.297946	0.072028	4.137	3.53e-05	***						
poor_prop	-0.211818	0.040039	-5.290	1.22e-07	***						
airportYES	0.033861	0.245330	0.138	0.890223							
n_hos_beds	0.176256	0.083340	2.115	0.034439	*						
n_hot_rooms	-0.079553	0.056361	-1.412	0.158097							
waterbodyLake	-0.062983	0.370489	-0.170	0.865011							
`waterbodyLake and River`	-0.199015	0.361962	-0.550	0.582442							
waterbodyRiver	0.080375	0.293049	0.274	0.783877							
rainfall	-0.005667	0.009691	-0.585	0.558725							
parks	20.411874	27.453336	0.744	0.457172							
avg_dist	-0.427118	0.115154	-3.709	0.000208	***						
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Signif. codes:	0	****	0.001	***	0.01	**	0.05	.'	0.1	'	1



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Method	Confusion Matrix	Accuracy
Logistic Regression	<pre>pred  0  1 NO    42 16 YES   26 36</pre>	65%
LDA	<pre>lda.class  0  1            0 44 16            1 24 36</pre>	66.6%
KNN (k=3)	<pre>testy knn.pred  0  1           0 38 24           1 30 28</pre>	55%