DA2 Assignment 2 - Barcelona Hotel Ratings

Data

Data Summary

Mean Median SDMin Max P05 P95 Ν High or Low Rating (1/0)0.741.00 0.440.00 1.00 0.00 1.00 674 4.10 4.105.003.50 4.60674Avg. rating 0.402.20 Price 352.17288.00 305.9452.00 2580.0071.65861.706747.86 Ln Price 3.95 4.276.76 674 5.50 5.66 0.88Distance from center 1.19 1.00 0.800.10 4.600.202.80 674Stars 2.00 5.00 674 3.51 4.000.961.00 5.00 Number of nights 2.46 1.00 1.00 4.00 674

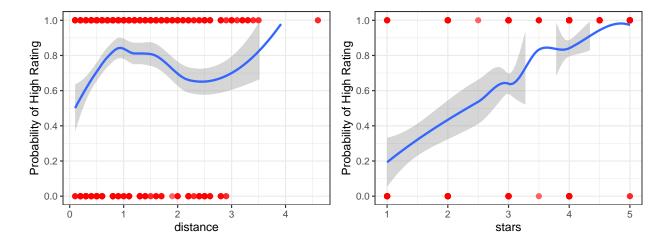
1.50

4.00

1.00

Table 1: Descriptive statistics

Regression exploration and findings



	Model 1	Model 2	Model 3	Model 4	Model 5
Constant	-2.222**	-17.649**		-10.125**	
	(0.427)	(3.145)		(1.756)	
stars	0.146**	0.838**	0.121**	0.501**	0.125**
	(0.018)	(0.120)	(0.021)	(0.069)	(0.015)
Distance under 1 mile	0.164*	1.067*	0.153*	0.603*	0.151*
	(0.075)	(0.461)	(0.068)	(0.268)	(0.066)
Distance 1 to 2 miles	-0.059	-0.296	-0.043	-0.188	-0.047
	(0.060)	(0.412)	(0.059)	(0.235)	(0.059)
Distance above 2 miles	0.014	0.049	0.007	0.045	0.011
	(0.050)	(0.456)	(0.066)	(0.256)	(0.064)
Log price below 1st spline	0.506**	3.323**	0.478**	1.896**	0.474**
	(0.096)	(0.696)	(0.111)	(0.390)	(0.093)
Log price 1st to 2nd spline	-0.543**	-4.396**	-0.632**	-2.418**	-0.605**
	(0.102)	(0.863)	(0.139)	(0.480)	(0.115)
Log price above 2nd spline	0.190**	2.030**	0.292**	1.079**	0.270**
	(0.050)	(0.532)	(0.082)	(0.292)	(0.071)
Num.Obs.	674	674	674	674	674

^{*} p < 0.05, ** p < 0.01

Regression Models

Difference in model predictions

