Linear Regression Results

Thayer Adsit, Matthew Chen, Cindy Huynh, James Leung

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1 Linear Regression Results

2 Log Linear Regression Results

Table 1: All riders

	Dependent variable:
	count
factor(season)2	−2.465
	(5.398)
factor(season)3	−37.082***
	(6.902)
factor(season)4	65.159***
	(4.541)
holiday	−9.442
	(9.177)
workingday	−2.705
	(3.283)
factor(weather)2	14.020***
	(3.600)
factor(weather)3	−9.167
	(6.053)
factor(weather)4	185.765
	(154.207)
temp	8.096***
	(1.206)
atemp	2.778***
	(1.058)
humidity	−2.810***
	(0.094)
windspeed	0.596***
	(0.199)
Constant	121.079***
	(9.042)
Observations	10,886
R^2	0.277
Adjusted R^2	0.276
Residual Std. Error	154.137 (df = 10873)
F Statistic	346.719*** (df = 12; 10873)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 2: Registered Riders

	Dependent variable:
	registered
factor(season)2	−2.228
	(4.704)
factor(season)3	−23.547***
	(6.016)
factor(season)4	58.545***
	(3.958)
holiday	3.026
	(7.998)
workingday	34.839***
	(2.861)
factor(weather)2	10.248***
	(3.138)
factor(weather)3	−12.841**
	(5.275)
factor(weather)4	142.001
	(134.398)
temp	5.344***
	(1.051)
atemp	2.064**
	(0.922)
humidity	−1.950***
	(0.082)
windspeed	0.590***
	(0.173)
Constant	78.047***
	(7.880)
Observations	10,886
R^2	0.210
Adjusted R^2	0.209
Residual Std. Error	134.338 (df = 10873)
F Statistic	240.566*** (df = 12; 10873)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 3: Casual Riders

	Dependent variable:
	casual
factor(season)2	−0.236
	(1.298)
factor(season)3	−13.535***
	(1.659)
factor(season)4	6.614***
	(1.092)
holiday	−12.468***
	(2.206)
workingday	−37.543***
	(0.789)
factor(weather)2	3.772***
	(0.866)
factor(weather)3	3.674**
	(1.455)
factor(weather)4	43.763
	(37.075)
temp	2.753***
	(0.290)
atemp	0.715***
	(0.254)
humidity	−0.860***
	(0.022)
windspeed	0.006
	(0.048)
Constant	43.032***
	(2.174)
Observations	10,886
R^2	0.450
Adjusted R^2	0.450
Residual Std. Error	37.058 (df = 10873)
F Statistic	742.573*** (df = 12; 10873)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 4: All riders log

	Dependent variable:
	log(count)
factor(season)2	-0.101^{**}
	(0.044)
factor(season)3	-0.369^{***}
	(0.057)
factor(season)4	0.543^{***}
	(0.037)
holiday	-0.108
	(0.075)
workingday	-0.123^{***}
	(0.027)
factor(weather)2	0.218^{***}
	(0.030)
factor(weather)3	0.028
	(0.050)
factor(weather)4	2.380^{*}
	(1.267)
temp	0.062^{***}
	(0.010)
atemp	0.027^{***}
	(0.009)
humidity	-0.025^{***}
	(0.001)
windspeed	0.007^{***}
	(0.002)
Constant	4.098^{***}
	(0.074)
Observations	10,886
R^2	0.277
Adjusted R^2	0.277
Residual Std. Error	1.266 (df = 10873)
F Statistic	347.880^{***} (df = 12; 10873)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 5: Registered Riders Log

	Dependent variable:
	registered
factor(season)2	−2.228
	(4.704)
factor(season)3	−23.547***
	(6.016)
factor(season)4	58.545***
	(3.958)
holiday	3.026
	(7.998)
workingday	34.839***
	(2.861)
factor(weather)2	10.248***
	(3.138)
factor(weather)3	−12.841**
	(5.275)
factor(weather)4	142.001
	(134.398)
temp	5.344***
	(1.051)
atemp	2.064**
	(0.922)
humidity	−1.950***
	(0.082)
windspeed	0.590***
	(0.173)
Constant	78.047***
	(7.880)
Observations	10,886
R^2	0.210
Adjusted R^2	0.209
Residual Std. Error	134.338 (df = 10873)
F Statistic	240.566*** (df = 12; 10873)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 6: Casual Riders Log

	Dependent variable:
	casual
factor(season)2	−0.236
	(1.298)
factor(season)3	−13.535***
	(1.659)
factor(season)4	6.614***
	(1.092)
holiday	−12.468***
	(2.206)
workingday	−37.543***
	(0.789)
factor(weather)2	3.772***
	(0.866)
factor(weather)3	3.674**
	(1.455)
factor(weather)4	43.763
	(37.075)
temp	2.753***
	(0.290)
atemp	0.715***
	(0.254)
humidity	−0.860***
	(0.022)
windspeed	0.006
	(0.048)
Constant	43.032***
	(2.174)
Observations	10,886
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