
name: <unnamed>

log: /Users/maximiannecastaneda/Desktop/Econometrics Final

Paper/Data Set/fi

> nal.txt

log type: text

opened on: 5 May 2020, 15:12:02

. gen logcurp = log(curp)
(968 missing values generated)

. summarize logcurp months rating perl platforms multi

Variable Max	0bs	Mean	Std. Dev.	Min
+				
logcurp 4.094178	31	3.354675	.6242149	1.607436
months 90	31	35.6129	26.02009	6
rating 4.8	31	4.196774	.6605472	2.8
perl 99.37913	31	91.15259	17.57786	15.23311
platforms 7	31	2.548387	1.286823	1
+				
multi 1	31	.7419355	.4448027	0

^{. //}main model

regress logcurp months rating perl platforms multi

Source	SS	df	MS	Number of obs	=
31				F(5, 25)	=
4.92				, ,	
Model	5.79842474	5	1.15968495	Prob > F	=
0.0028 Residual 0.4960	5.89090076	25	.23563603	R-squared	=
+				Adj R-squared	=
0.3953 Total = .48542	11.6893255	30	.389644183	Root MSE	

 logcurp Interval] 	Coef.	Std. Err.	t	P> t	[95% Conf.
+					
months 003844	0112459	.003594	-3.13	0.004	0186478
	.3185373	. 1539162	2.07	0.049	
	.0126656	.0055224	2.29	0.030	
platforms 1884449 .10	040076	.0720399	-0.56	0.583	
	.1492098	.2084766	0.72	0.481	
		.7734017	1.62	0.117	3375876

Source | SS

31	1	U .				
_	-+			F(4,	26)	=
6.24 Model 0.0012	5.72550176	4	1.43137544	Prob	> F	=
Residual 0.4898	5.96382374			•	uared	=
0.4113	11.6893255		.389644183	_	R-squared MSE	=
Interval]	Coef.					nf.
months 0043699	0115651 .3365299	.0035004	-3.30	0.003		4

df

MS

Number of obs =

^{. //}ommitted variable, talk about theoretically.

^{//}irrelevant variable : platform availabilityregress logcurp months rating perl multi

perl . 0127223	.0054476	2.34	0.028		
.0015245 .0239201					
multi .1717305	.2017743	0.85	0.402		
- . 2430225 . 5864834					
_cons 1.067117	.6862346	1.56	0.132	343458	
2.477693					

. regress logcurp logmonths months rating platforms multi perl

Source	SS	df	MS	Numb	per of obs	=
	-+			- F(6,	24)	=
6.91 Model 0.0002	7.40231921	6	1.23371987	7 Prob) > F	=
Residual 0.6333	4.28700629				quared	
0.5416	11.6893255			Λαj	R-squared MSE	=
logcurp	Coef.	Std. Err.	t	P> t	[95% Col	 nf.
+logmonths 2929288	9411859	.3140935	-3 . 00	0.006	-1 . 589443	3
months 0036903	.016448 .0365862	.0097574	1.69	0.105		
	3926837	.1362746	2.88	0.008		
	0597641	.0630657	-0.95	0.353		
	186747	.1819448	1.03	0.315		
perl 0008482	.0093368	.0049348	1.89	0.071		
	3.368074	.9749781	3.45	0.002	1.355818	3

^{. //}functional form
. gen logmonths = log(months)
(968 missing values generated)

. //heterosked.

regress logcurp months rating perl platforms multi

-	SS	df	MS	Numb	er of obs	=
31 +				F(5,	25)	=
4.92					_	
Model 0.0028	5.79842474	5	1.15968495	Prob	> F	=
	5.89090076	25	.23563603	R-sq	uared	=
0.4960						
+ 0.3953				Adj	R-squared	=
Total	11.6893255	30	.389644183	Root	MSE	
= .48542						
logcurp	Coef.	Std. Err.	t	P> t	[95% Cor	nf.
Interval] 						
+						
	0112459	.003594	-3.13	0.004	0186478	3
003844	.3185373	1539162	2 07	0.049		
.001541 .63		11333102	2.07	0.043		
	.0126656	.0055224	2.29	0.030		
.001292 .02						
	040076	.0720399	-0.56	0. 583		
1884449 .	.1082929 .1492098	2024766	0.72	ω 101		
2801559		. 2004700	0.72	0.401		
	1.255263	.7734017	1.62	0.117	3375876	5
2.848114						

. predict resid_amt, resid
(968 missing values generated)

- . scatter resid_amt months
- . scatter resid_amt rating
- . scatter resid_amt perl
- . scatter resid_amt platforms

. scatter resid_amt multi

•

. estat hettest, rhs

Breusch-Pagan / Cook-Weisberg test for heteroskedasticity

Ho: Constant variance

Variables: months rating perl platforms multi

chi2(5) = 6.09Prob > chi2 = 0.2975

- . //which has a high t-score?
- . //generate the scatter plot
- . //multicoliniearity
- . regress logcurp months rating perl platforms multi

Source 31	SS	df	MS	Numb	er of obs	=
	+			- F(5,	25)	=
4.92 Model 0.0028	5.79842474	5	1.15968495	5 Prob	> F	=
0.4960	5.89090076 +			·	uared	
0.3953	11.6893255				R-squared MSE	=
Interval]	Coef.			P> t	[95% Cor	 nf.
	- . 0112459			0.004	- . 0186478	3
	. 3185373 355336	.1539162	2.07	0.049		
	.0126656	.0055224	2.29	0.030		
platforms 1884449	040076 .1082929	.0720399	-0.56	0.583		
multi - . 2801559	.1492098 .5785754	.2084766	0.72	0.481		
_cons	1.255263	.7734017	1.62	0.117	- . 3375876	5

. estat vif

Variable	VIF	1/VIF
rating perl months multi platforms	1.32 1.20 1.11 1.09 1.09	0.759878 0.833551 0.898161 0.913421 0.913980
 Mean VIF	1.16	

. //no serial correlation

. //for fun

. regress logcurp logmonths months rating perl multi

Source 31	SS	df	MS	Number of obs	=
	+			F(5, 25)	=
8.14 Model 0.0001	7.24190732	5	1.44838146	Prob > F	=
	4.44741818			·	=
0.5434 Total = .42178	+			Adj R-squared Root MSE	=
logcurp	Coef.	Std. Err.	t P>	> t [95% Co	 nf.
logmonths 2681219	910176	.3117466	-2 . 92 0.	.007 -1.5522	3
months 0047644	.0150646	.0096279	1.56 0.	.130	
	4167813	.1336077	3.12 0.	.005	
	0095301	.0049205	1.94 0.	.064	
	2187301	.1784222	1.23 0.	. 232	

-.1487373 .5861976
__cons | 3.020932 .9016996 3.35 0.003 1.163847
4.878017
-----. log close
 name: <unnamed>
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 log type: text
 closed on: 5 May 2020, 15:12:06
