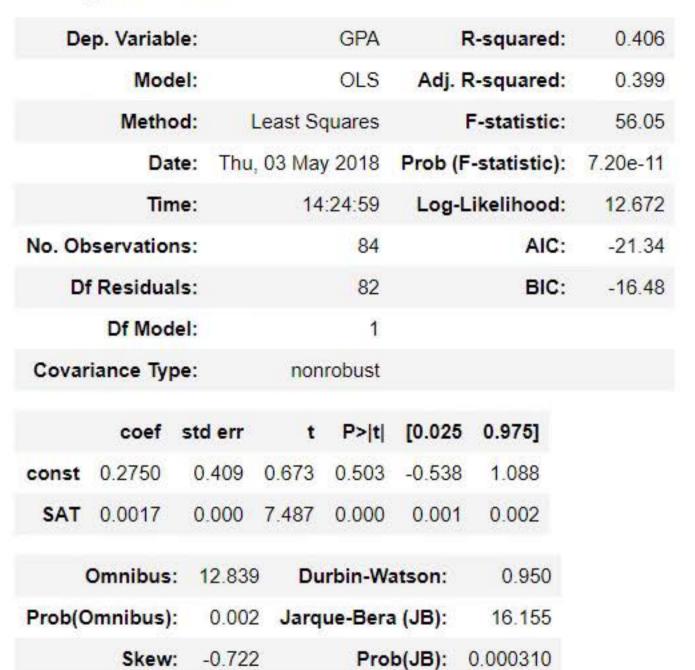
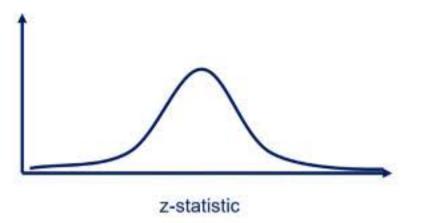
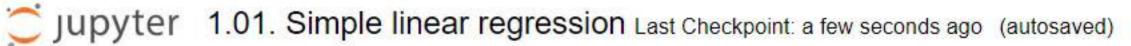


Out[7]:

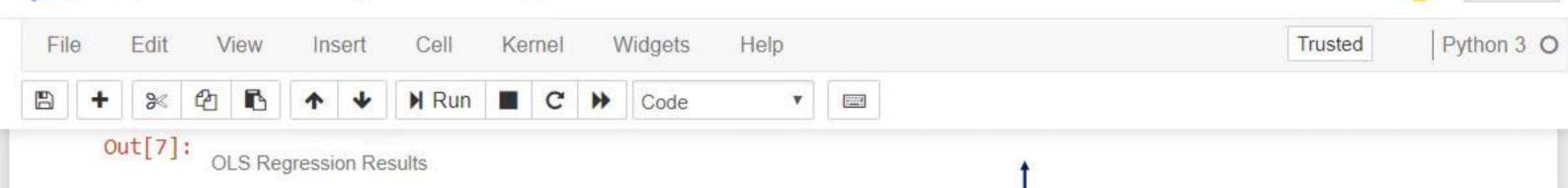
OLS Regression Results

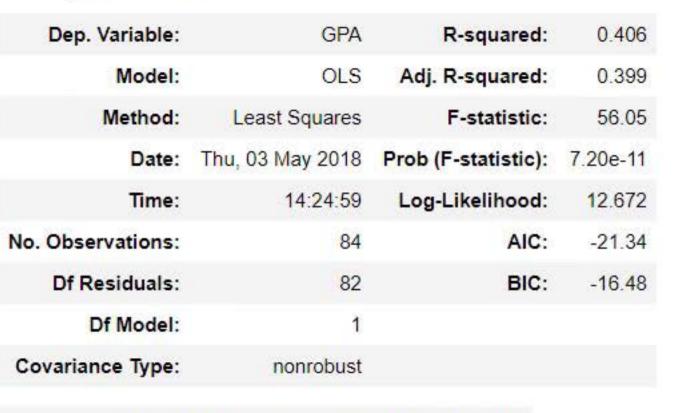


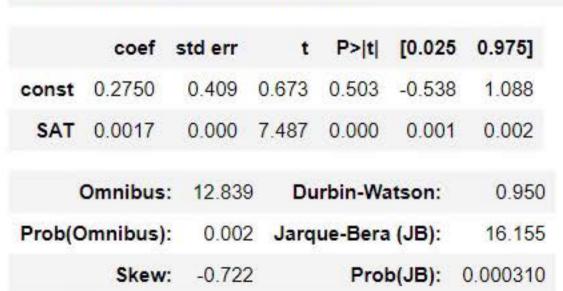


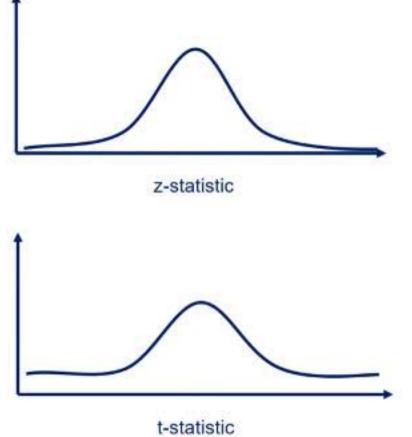


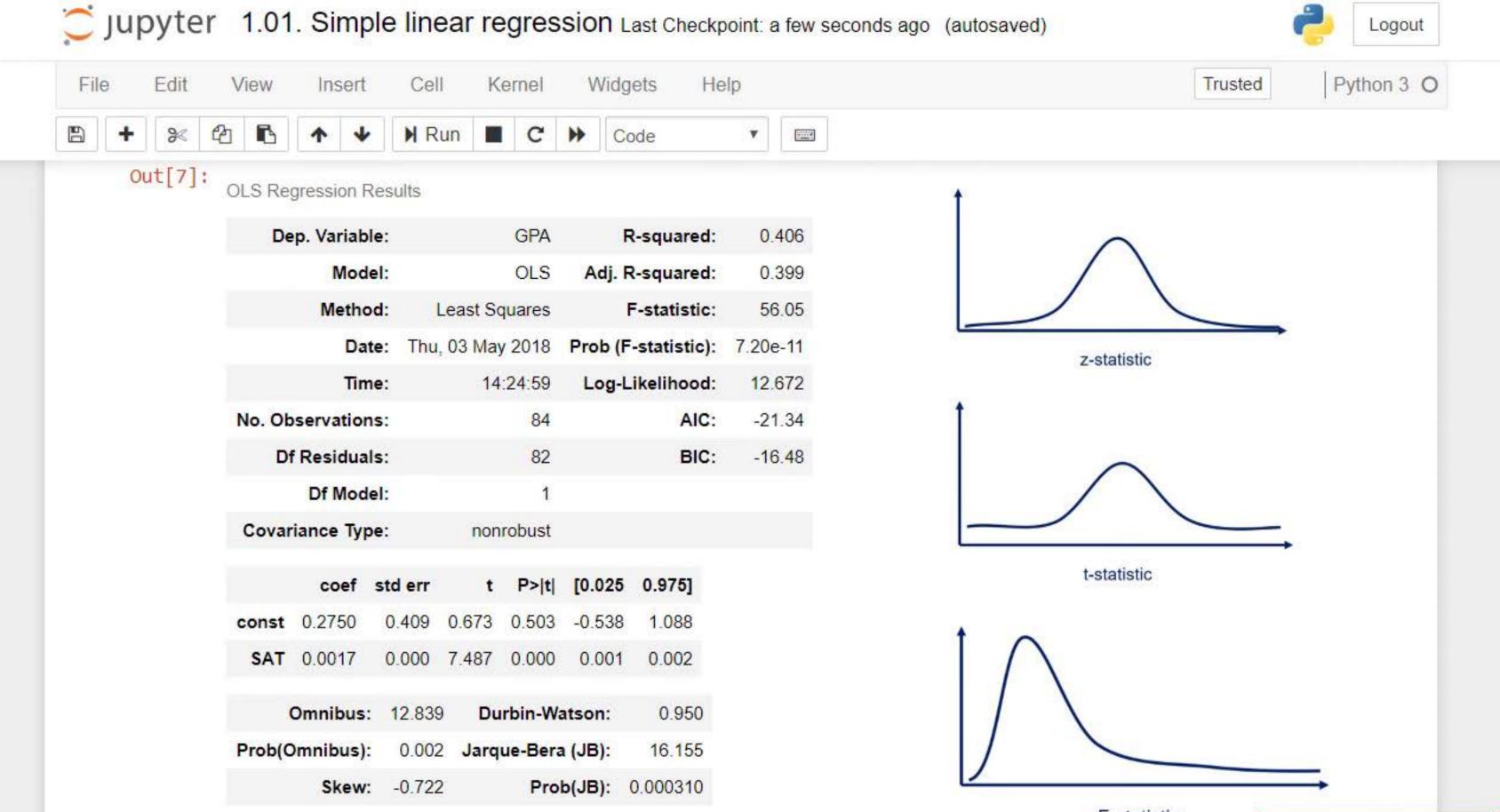


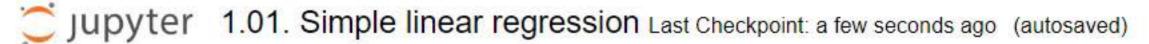




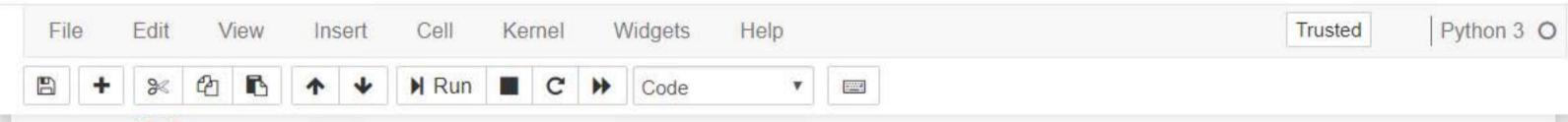












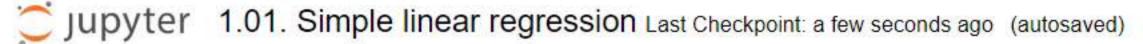
Out[7]:

OLS Regression Results

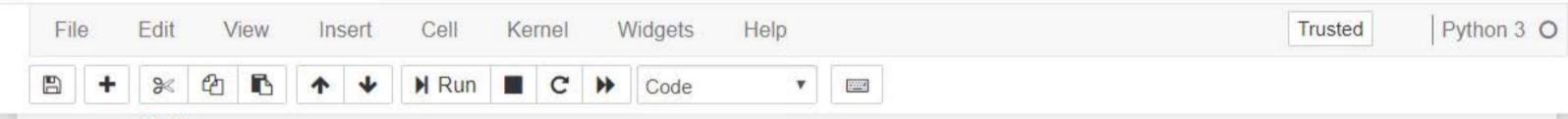
0.406	R-squared:	F	GPA		e:	p. Variabl	De
0.399	R-squared:	Adj. R-squared:			el:	Model:	
56.05	-statistic:	F	uares	east So	d: L	Metho	
7.20e-11	-statistic):	Prob (F	2018	03 May	e: Thu,	Dat	
12.672	ikelihood:	Log-L	:24:59	14	e:	Tim	
-21.34	AIC:		84		s:	servation	No. Ol
-16.48	BIC:		82		s:	f Residual	D
			1		el:	Df Mode	
			robust	non	e:	iance Typ	Cova
	0.975]	[0.025	P> t	t	std err	coef	
	1.088	-0.538	0.503	0.673	0.409	0.2750	const
	0.002	0.001	0.000	7.487	0.000	0.0017	SAT
	0.950	itson:	rbin-Wa	Du	12.839	Omnibus:	
	16.155	(JB):	ue-Bera	Jarq	0.002)mnibus):	Prob(0
	0.000310	o(JB):	Prol		-0.722	Skew:	

F-test:

$$H_0: \beta_1 = \beta_2 = ... = \beta_k = 0$$







Out[7]:

OLS Regression Results

Skew: -0.722

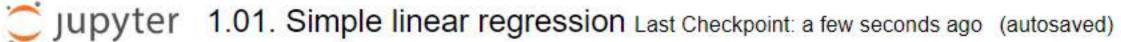
De	p. Variab	le:		GPA	F	R-squared:	0.406
	el:	OLS			Adj. R-squared:		
	Method		_east So	quares	F	-statistic:	56.05
	Dat	te: Thu	: Thu, 03 May 2018			-statistic):	7.20e-11
	Tim	ie:	14	:24:59	Log-L	ikelihood:	12.672
No. Ob	servation	ıs:		84		AIC:	-21.34
Df	Residua	ls:		82		BIC:	-16.48
	Df Mod	el:		1			
Covar	iance Typ	e:	non	robust			
	coef	std err	t	P> t	[0.025	0.975]	
const	0.2750	0.409	0.673	0.503	-0.538	1.088	
SAT	0.0017	0.000	7.487	0.000	0.001	0.002	
(Omnibus:	12.839) Du	rbin-Wa	atson:	0.950	
Prob(C	mnibus):	0.002	Jarq	ue-Bera	(JB):	16.155	

Prob(JB): 0.000310

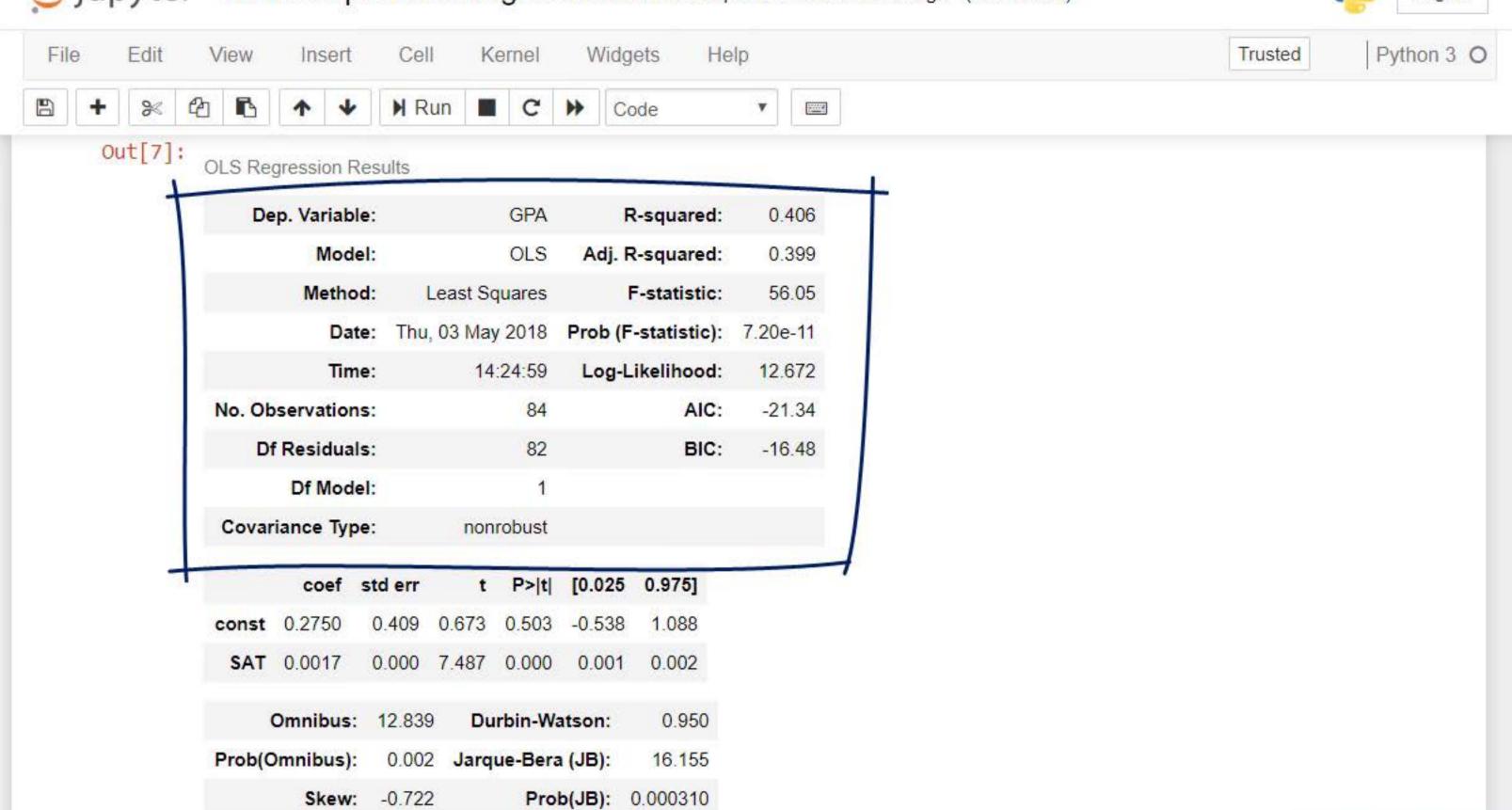
F-test:

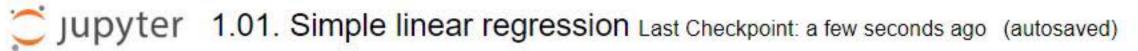
$$H_0: \beta_1 = \beta_2 = ... = \beta_k = 0$$

$$H_1$$
: at least one $\beta_i \neq 0$











Trusted

Logout

Python 3 O

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+	% 4		1	N R	un 🔳	C	₩ Co	ode	•	3
Out	t[7]:	OLS Re	gression R	esults						
		De	p. Variabl	e:		GPA	F	R-squared:	0.406	
			Mode	el:		OLS	Adj. F	R-squared:	0.399	
			Metho	d:	Least S	quares		F-statistic:	56.05	
			Dat	e: Thu	, 03 Ma	y 2018	Prob (F	-statistic):	7.20e-11	
			Tim	e:	14	:24:59	Log-L	ikelihood:	12.672	
		No. Ob	servation	s:		84		AIC:	-21.34	
		Df	Residual	s:		82		BIC:	-16.48	
			Df Mode	el:		1				
		Covar	iance Typ	e:	non	robust				
			coef	std err	t	P> t	[0.025	0.975]		
		const	0.2750	0.409	0.673	0.503	-0.538	1.088		
		SAT	0.0017	0.000	7.487	0.000	0.001	0.002		
			Omnibus:	12.839	Du	ırbin-Wa	atson:	0.950		
		Prob(C	mnibus):	0.002	2 Jarq	ue-Bera	a (JB):	16.155		
			Skew:	-0.722	2	Pro	b(JB):	0.000310		



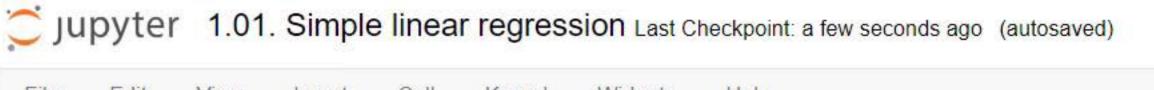


Trusted

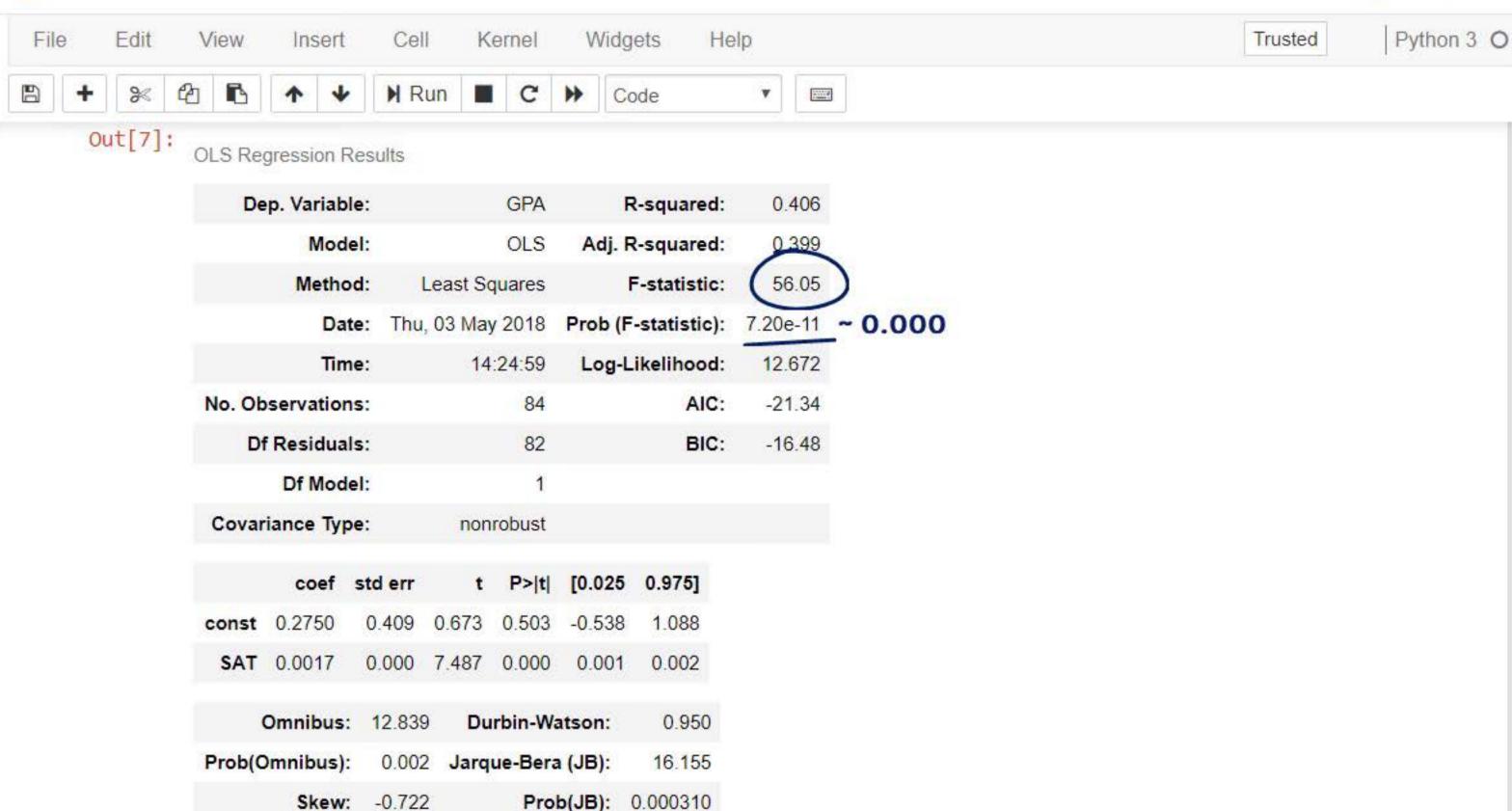
Logout

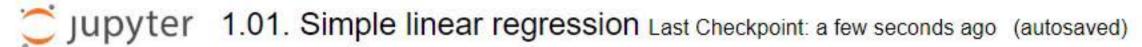
Python 3 O

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File Edit	View Inse	rt Ce	ell K	ernel	Widg	gets He	elp
+ × 4	h 6 1	₩ N F	Run	C) C	ode	Y
Out[7]:	OLS Regression	Results					
	Dep. Varia	able:		GPA	ı	R-squared:	0.406
	Mo	del:		OLS	Adj. I	R-squared:	0.399
	Met	hod:	Least S	quares		F-statistic:	56.05
		ate: Thu	u, 03 Ma	y 2018	Prob (F	-statistic):	7.20e-11
	1	ime:	14	:24:59	Log-l	_ikelihood:	12.672
	No. Observati	ons:		84		AIC:	-21.34
	Df Reside	ıals:		82		BIC:	-16.48
	Df Mo	del:		1			
	Covariance 7	ype:	non	robust			
	coe	std err	t	P> t	[0.025	0.975]	
	const 0.2750	0.409	0.673	0.503	-0.538	1.088	
	SAT 0.0017	0.000	7.487	0.000	0.001	0.002	
	Omnibu	ıs: 12.83	9 D u	ırbin-Wa	atson:	0.950	
	Prob(Omnibu	s): 0.00	2 Jarq	ue-Bera	(JB):	16.155	
	Ske	w: -0.72	2	Pro	b(JB):	0.000310	

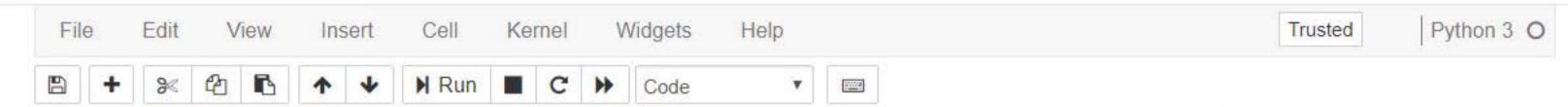












Out[7]:

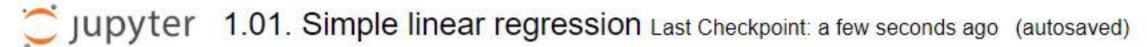
OLS Regression Results

Skew: -0.722

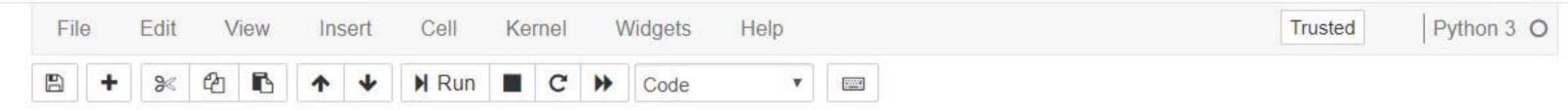
De	p. Variab	ole:		GPA	F	R-squared:	0.406
	Mod	lel:		OLS	Adj. F	R-squared:	0.399
Metho		od:	Least So	quares	ı	-statistic:	56.05
	Dat		, 03 Ma	y 2018	Prob (F	-statistic):	7.20e-11
	Tin	ne:	14	:24:59	Log-L	ikelihood:	12.672
No. Ob	servatio	ns:		84		AIC:	-21.34
Df	Residua	ıls:		82		BIC:	- <mark>16.4</mark> 8
	Df Mod	lel:		1			
Covar	iance Ty	pe:	non	robust			
	coef	std err	t	P> t	[0.025	0.975]	
const	0.2750	0.409	0.673	0.503	-0.538	1.088	
SAT	0.0017	0.000	7.487	0.000	0.001	0.002	
(Omnibus	: 12.83	9 D u	ırbin-W	atson:	0.950	
Prob(C	mnibus)	: 0.002	2 Jarq	ue-Bera	a (JB):	16.155	

Prob(JB): 0.000310

Dep. Variable:	GPA	R-squared:	0.407
Model:	OLS	Adj. R-squared:	0.392
Method:	Least Squares	F-statistic:	27.76
Date:	Tue, 06 Mar 2018	Prob (F-statistic):	6.58e-10
Time:	18:09:00	Log-Likelihood:	12.720
No. Observations:	84	AIC:	-19.44
Df Residuals:	81	BIC:	-12.15
Df Model:	2		
Covariance Type:	nonrobust		







Out[7]:

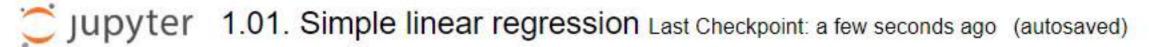
OLS Regression Results

Skew: -0.722

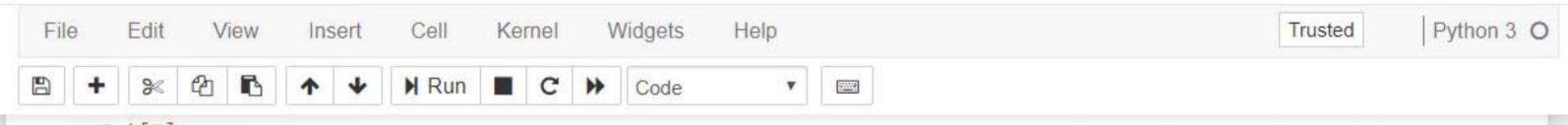
0.406
0.406
0.399
56.05
20e-11
2.672
-21.34
-16.48

Prob(JB): 0.000310

Dep. Variable:	GPA	R-squared:	0.407
Model:	OLS	Adj. R-squared:	0.392
Method:	Least Squares	F-statistic:	27.76
Date:	Tue, 06 Mar 2018	Prob (F-statistic):	6.58e-10
Time:	18:09:00	Log-Likelihood:	12.720
No. Observations:	84	AIC:	-19.44
Df Residuals:	81	BIC:	-12.15
Df Model:	2		
Covariance Type:	nonrobust		







Out[7]:

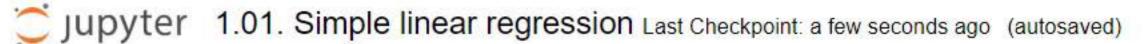
OLS Regression Results

Skew: -0.722

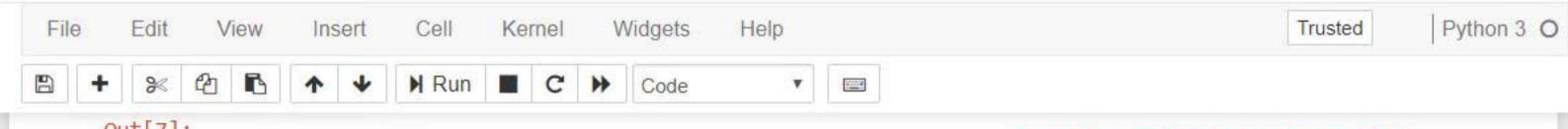
De	p. Variab	ole:		GPA	F	R-squared:	0.406
Mode		lel:		OLS	Adj. R-squared:		0.399
	Metho	od:	Least So	quares	F	-statistic:	56.05
	Da	ite: Thu	, 03 Ma	y 2018	Prob (F	-statistic):	7.20e-11
Tim		ne:	14	:24:59	Log-L	ikelihood:	12.672
No. Ob	servatio	ns:		84		AIC:	-21.34
Df	Residua	als:		82		BIC:	-16.48
	Df Mod	lel:		1			
Covar	iance Ty	pe:	non	robust			
	coef	std err	t	P> t	[0.025	0.975]	
const	0.2750	0.409	0.673	0.503	-0.538	1.088	
SAT	0.0017	0.000	7.487	0.000	0.001	0.002	
(Omnibus	: 12.83	9 D u	ırbin-W	atson:	0.950	
Prob(C	mnibus)	: 0.002	2 Jara	ue-Bera	a (JB):	16.155	

Prob(JB): 0.000310

Dep. Variable:	GPA	R-squared:	0.407	
Model:	OLS	Adj. R-squared:	0.392	
Method:	Least Squares	F-statistic:	27.76	>
Date:	Tue, 06 Mar 2018	Prob (F-statistic):	6.58e-10	0.000
Time:	18:09:00	Log-Likelihood:	12.720	
No. Observations:	84	AIC:	-19.44	
Df Residuals:	81	BIC:	-12.15	
Df Model:	2			
Covariance Type:	nonrobust			







Out[7]: OLS Regression Results

Omnibus: 12.839

Skew: -0.722

0.002

Prob(Omnibus):

0.406	-squared:	R	GPA		ole:	p. Variab	De		
0 399	R-squared:	Adj. R-squared:		Adj. R-squared:		OLS		Model:	
56.05	-statistic:	F	quares	Least Squares		Metho			
7.20e-11	-statistic):	Prob (F	2018	, 03 May	ite: Thu	Date:			
12.672	ikelihood:	Log-L	:24:59	14	ne:	Time:			
-21.34	AIC:		84		ns:	No. Observations:			
-16. <mark>4</mark> 8	BIC:	82		ıls:	Residua	Df			
			1		lel:	Df Mod			
			robust	non	pe:	iance Ty	Covar		
	0.975]	[0.025	P> t	t	std err	coef			
	1.088	-0.538	0.503	0.673	0.409	0.2750	const		
	0.002	0.001	0.000	7.487	0.000	0.0017	SAT		

Durbin-Watson:

Jarque-Bera (JB):

0.950

16.155

Prob(JB): 0.000310

Dep. Variable:	GPA	R-squared:	0.407	
Model:	OLS	Adj. R-squared:	0.392	
Method:	Least Squares	F-statistic:	27.76	>
Date:	Tue, 06 Mar 2018	Prob (F-statistic):	6.58e-10	0.000
Time:	18:09:00	Log-Likelihood:	12.720	
No. Observations:	84	AIC:	-19.44	
Df Residuals:	81	BIC:	-12.15	
Df Model:	2			
Covariance Type:	nonrobust			