	<pre>import pandas as pd import numpy as np from sklearn.model_se import sklearn.metric import statsmodels.ap import random as rd</pre>	cs as met	.mport trai	in_test_:	split								
In [3]:	<pre>import random as rd import seaborn as sns import matplotlib.pyp adults = pd.read_csv() adults</pre>	olot as pl		/DataSet:	s/Adult'))							
Out[6]:	age workclass der 0 39 State-gov	mogweight 77516	education e Bachelors	education- num	marital- status Never- married	occupation Adm- clerical	Not-in-	race White	sex Male	capital- cagain	apital- loss	per- week	nat cou Uni St
	 Self-emp-not-inc 3 8 Private Private 	83311 215646 234721	Bachelors HS-grad	13 9 7	Married- civ- spouse Divorced Married- civ- spouse	Exec- managerial Handlers- cleaners Handlers- cleaners	Not-in-	White White Black	Male Male	0 0	0 0	13 40 40	Uni St Uni St
	4 28 Private 24995 41 Private	338409 112507	Bachelors	13 	Married- civ- spouse Married- civ-	Prof- specialty Transport- moving	Wife Husband	Black White	Female Male	0 0	0 	40 60	Uni St
	24996 19 Private24997 33 Private24998 21 ?	236940 278514 433330	HS-grad HS-grad Some-college	9 9	Never- married Divorced Never- married	Farming- fishing Craft-repair	Own-child	White White	Male Female Male	0 0	0 0	40 42 40	Uni St Uni St
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In [8]:	1. Partition the containing ak	oout h	half of	the	recor	ds.				ѕет, е	acn		
In [10]: Out[10]:	age workclass der 12653 23 Private	nogweight 181820	education e Some- college	education- num	marital- status Never- married	occupation Farming- fishing		race White	sex Male	capital- ca gain 0	apital-	per- week	nat cou Uni St
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	23488 40 Private 5580 44 Private	283174 112517 	Assoc-voc Masters	11 14 	civ- spouse Married- civ- spouse	Farming- fishing Tech- support	Husband Husband 		Male Male 	0 0	0 0	20	Uni St
	 287 50 Private 21269 29 Private 17654 57 Private 	176609 241667 159319	Some- college Masters	10 14 14	Never- married Married- civ- spouse	Other- service Prof- specialty Exec- managerial	Not-in- family	White White White	Male Female Male	0 0	0 0	45 45 50	Uni St Uni St
	9991 55 State-gov 16173 19 ? 12500 rows × 15 columns	337599 129586	Some- college Some- college	10	Divorced Never- married	Adm- clerical ?	Not-in- family Own-child	White White	Male Male	0	0	40	Uni St Uni St
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	3493 35 Private21765 22 Private23692 31 Private	326334 37546	Some- college Bachelors	9 10 13	civ- spouse Never- married Never- married	Other- service Craft-repair Prof- specialty	Own-child Not-in- family	White White	Male	0 0	0 0	16 35 40	Un S Un S
	600 32 Private 24820 29 Private 23670 26 ?	239824 79481 208994	Some-college Some-college	13 10 	Never- married Never- married Never- married	Tech- support Tech- support ?	Not-in-	White White White	Male Female Male	0 0	0 0	40 40 	Un S Un S
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In [13]:	2915 26 Private 12500 rows × 15 columns	198163	Masters	14	Married- civ- spouse	Sales		White		0	0	40	Un S
	#The data of the adult #two equal halfs 2.Run a regreand Education any predictor	ession n Nur	mode n. Ob	el to tain a	predi a sum	ct Ho	urs pe	r W	eek odel	usino . Are	g Ag	je re	
In [12]:	#Separating the data #independent variable pred = pd.DataFrame(a target = pd.DataFrame	using dat while thadult_trai	ta frame in ne target n .n[['age',	nto pred represen 'educat:	ictors and the tax	nd target rget or de	variables.	The pi			epresent	t the	X (
<pre>In [13]: Out[13]:</pre>	age education-num 3493 35 9 21765 22 10)											
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	3046 54 10 20463 85 9 18638 36 9 2915 26 14 12500 rows × 2 columns												
In [14]: Out[14]:	hours-per-week 3493 16 21765 35												
	23692 40 600 40 24820 40 23670 12												
	3046 30 20463 50 18638 25 2915 40												
In [15]: In [16]:	#Adding a constant boom pred = sm.add_constant #Now running the multi-	nt (pred)											
In [17]: Out[17]:	<pre>model01 = sm.OLS(targ model01.summary()</pre>	get, pred) egression Resu	.fit()		5								
	Date: Tue, 07 Se	Squares	g-Likelihood:	162.	9 0 3.								
	coef sto	12497 2 nrobust d err t 0.524 59.716	P> t [0.0	_									
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	Skew: 0.198 Kurtosis: 6.062 Notes: [1] Standard Errors assume t	Prob(J Cond. N	No. 204.		rrors is cor	rectly specif	ed.						
In [22]:	#The regression summa #and education-num as # is less than the cu # in a regression mod	ary above s 0.0611 a utoff valu del, so al	shows that and 0.6746, ae of 0.05, 1 the pred	t we have, respec , which a dictors	e the reg tively. ' allowed : used show	gression c The p-valu for retain uld be inc	oefficients e for both ing a varia luded in th	the agable	ge and	educatio	on-num		
In [18]:	#Now validating the mand the target_test pred_test = pd.DataFr	model usin	ng the test		•	evious		•					
	target_test = pd.Data		_	<i>ndent va.</i> ge', 'edi	<i>riables</i> ducation-r	on the tes	esent the p		tors or	n the tes	st data		
In [19]: Out[19]:	pred_test = pd.Data pred_test age education-num 12653 23 10 22745 37 12	aFrame(adu	_	<i>ndent va.</i> ge', 'edi	<i>riables</i> ducation-r	on the tes	esent the p		tors or	n the tes	st data		
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