	22.25	21 52 52 52 52	880 1 7099 11 1467 1 1274 2 1627 2 data	.29.0 3 .06.0 24 .90.0 4 .35.0 5	latitu	6 8 8 8 7 7 9 5 9 3	8.3252 NE 8.3014 NE 7.2574 NE 5.6431 NE	EAR BAY EAR BAY EAR BAY EAR BAY EAR BAY	452600 358500 352100 341300 342200 housing_med	lian_age
2500	-124 -122 -120 total	-118 -116	2500 2000 1500 1000 500	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36 total_bed	38 40	0 42	1200 1000 800 600 400 200 0	10 20 populat	30 40
4000 3000 2000 1000		0000 25000 30000 35000 seholds	1600		2000 3000 median_i	4000 500 ncome	0 6000	4000	00 10000 15000 20 median_hous	000 25000 30000 se_value
impor	o 1000 2000 30 It seaborn as sns.mplot(x="median_ir")		1400 1200 1000 800 400 200 200		_proximity"			800 600 400 200 0 10	00000 200000 30	00000 400000
median_house_valu	00 -		ocean_proxim NEAR BA 1 OCE INLAND NEAR OCE ISLAND	Y Ean						
10000 df.ta 5]: 20635 20636 20637 20638	0 - 2 4 6 med	8 10 12 dian_income pusing_median_age tot 25 18 17 18	tal_rooms total_b 1665 697 2254 1860	374.0 150.0 485.0 409.0	845 356 1007 741	330 114 433 349	an_income ocea 1.5603 2.5568 1.7000 1.8672	an_proximity media INLAND INLAND INLAND INLAND	n_house_value 78100 77100 92300 84700	
df.co	longitude 1.00000 latitude -0.92466 g_median_age -0.10819 total_rooms 0.04456	de latitude housing 00 -0.924664 64 1.000000 97 0.011173 68 -0.036100	_median_age tota -0.108197 0.011173 - 1.0000000.361262	0.044568 -0.036100 -0.361262 1.000000	0.069608 -0.066983 -0.320451 0.930380	0.099773 -0.108785 -0.296244 0.857126	0.055310 -0.071035 -0.302916 0.918484	ian_income median -0.015176 -0.079809 -0.119034 0.198050	-0.045967 -0.144160 0.105623 0.134153	
median df.co	edian_income -0.01517 house_value -0.04596 flumns (['longitude', 'lan' 'total_bedrooms',	73 -0.108785 10 -0.071035 76 -0.079809 57 -0.144160	-0.296244 -0.302916 -0.119034 0.105623 _median_age', nouseholds', 'i	0.930380 0.857126 0.918484 0.198050 0.134153 'total_roommedian_inco	s',	0.877747 1.000000 0.907222 0.004834 -0.024650	0.979728 0.907222 1.000000 0.013033 0.065843	-0.007723 0.004834 0.013033 1.000000 0.688075	0.049686 -0.024650 0.065843 0.688075 1.000000	
longit latitu housin total_ total_ popula househ median ocean_ median dtype:	cude ude ng_median_age _rooms _bedrooms 20 ation									
df.is df.is longit latitu housin total_ popula househ median ocean_ median	cnull().sum() cude 0 de 0 ng_median_age 0 _rooms 0 bedrooms 0 ation 0 nolds 0 n_income 0 _proximity 0 n_house_value 0 int64									
total_ total_ popula househ median ocean_ median dtype: # sel	ude fing_median_age _rooms _bedrooms fination nolds n_income fination		ct']).copy()							
0 1 2 3 4 20635	ocean_proximity NEAR BAY NEAR BAY NEAR BAY NEAR BAY NEAR BAY NEAR BAY INLAND									
# con	INLAND INLAND INLAND INLAND Ows × 1 columns Overt categorical of the columns Immy = pd.get_dummi									
	ocean_proximity_<1H C	OCEAN ocean_proximit 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	n_proximity_ISI	0 0 0 0 0 0 0 0 0 0 0	proximity_NE	1 1 1 1 1 0 0 0 0 0	proximity_NEAR OCE	EAN 0 0 0 0 0 0 0 0 0 0 0	
20638 20639 20640 rd 0]: df_nu df_nu 0]:	longitude latitude ho -122.23 37.88 -122.22 37.86 -122.24 37.85	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	880 7099 1467	129.0 1106.0 190.0	0 0 0 Dulation house 322 2401 496	126 1138 177	0 0 an_income med 8.3252 8.3014 7.2574	452600 358500 352100	0 0 0	
1.	-122.25 37.85 -122.25 37.85121.09 39.48 -121.21 39.49 -121.22 39.43 -121.32 39.43 -121.24 39.37 ows × 9 columns pd.concat([df_num,	52 52 25 18 17 18 16	1274 1627 1665 697 2254 1860 2785	235.0 280.0 374.0 150.0 485.0 409.0 616.0	558 565 845 356 1007 741 1387	219 259 330 114 433 349 530	5.6431 3.8462 1.5603 2.5568 1.7000 1.8672 2.3886	341300 342200 78100 77100 92300 84700 89400		
2]: df	longitude latitude ho -122.23 37.88 -122.22 37.86 -122.24 37.85 -122.25 37.85 -122.25 37.85121.09 39.48			129.0 1106.0 190.0 235.0 280.0 	322 2401 496 558 565 	126 1138 177 219 259 	8.3252 8.3014 7.2574 5.6431 3.8462 	dian_house_value	cean_proximity_<1H OCEAN 0 0 0 0	
20636 20637 20638 20639	-121.21 39.49 -121.22 39.43 -121.32 39.43 -121.24 39.37 ows × 14 columns	18 17 18 16	697 2254 1860 2785	150.0 485.0 409.0 616.0	356 1007 741 1387	114 433 349 530	2.5568 1.7000 1.8672 2.3886	77100 92300 84700 89400 median_income me -0.015176	000000000000000000000000000000000000000	
me oce	total_rooms 0.0 total_bedrooms 0.0 population 0.0 households 0.0 median_income -0.0 edian_house_value -0.0	0.08197	0.011173 1.000000 -0.361262 -0.318998 -0.296244 -0.302916 -0.119034 0.105623 0.045300 -0.236645	-0.036100 -0.361262 1.000000 0.927253 0.857126 0.918484 0.198050 0.134153 -0.003031 0.025624	-0.06665 -0.31899 0.92725 1.00000 0.87391 0.97472 -0.00768 0.04945 0.01822	8 -0.296244 3 0.857126 0 0.873910 0 1.000000 5 0.907222 2 0.004834 4 -0.024650 0 0.074613	-0.302916 6 0.918484 0 0.974725 0 0.907222 2 1.000000 4 0.013033 0 0.065843 3 0.042435	-0.079809 -0.119034 0.198050 -0.007682 0.004834 0.013033 1.000000 0.688075 0.168876 -0.237496	-0.144160 0.105623 0.134153 0.049454 -0.024650 0.065843 0.688075 1.000000 0.256617 -0.484859	-0.44 0.00 -0.00 0.00 0.00 0.16 0.29 1.00 -0.66
ocear ocear wedian median ocean_	BAY	ion) use_value"].sort_v 1.000000 0.688075 AN 0.256617	0.017020 0.255172 0.021622 values(ascendin	-0.007572 -0.023022 -0.009175	-0.00436 -0.01978 0.00067	5 -0.060880	0 -0.010093	-0.009228 0.056197 0.027344	0.023416 0.160284 0.141862	-0.03 -0.3
df.co	'median_house_val	titude', 'housing_ , 'population', 'h lue', 'ocean_proxi _INLAND', 'ocean_p _NEAR BAY', 'ocean	nouseholds', 'n Lmity_<1H OCEAN proximity_ISLAN n_proximity_NEA nedian_house_va	median_inco N', ND', AR OCEAN'], alue'], kin	me', d = 'reg')	Warning: P	ass the follo	owing variables	as kevword args	s: x, v. From
C:\Use on 0.1 nterpr warn 6]: <seabo 10000="" 10000<="" 50000="" 60000="" 70000="" th=""><th>00 -</th><th>positional argume Grid at 0x27dc17fb B 10 12 median_income x="longitude", y</th><th>2="latitude", 1</th><th>figsize = (</th><th>8,6), alpha:</th><th>=0.1)</th><th>s without an</th><th></th><th></th><th></th></seabo>	00 -	positional argume Grid at 0x27dc17fb B 10 12 median_income x="longitude", y	2="latitude", 1	figsize = (8,6), alpha:	=0.1)	s without an			
C:\Use on 0.1 nterpr warn 70000 60000 50000 10000 10000 40 - 42 - 40 - 38 - 42 - 40 - 40 - 38 - 42 - 40 - 41 - 42 - 44 - 45 - 46 - 47 - 48 - 48 - 49 - 40 - 40 - 40 - 41 - 42 - 44 - 45 - 46 - 47 - 48 - 48 - 49 - 40 - 40 - 40 - 40 - 40 - 40 - 41 - 42 - 44 - 45 - 46 - 47 - 48 - 49 - 40	ers\srivi\anaconda3 12, the only valid retation. nings.warn(orn.axisgrid.Joint() 00 00 00 00 00 00 00 00 00 00 00 00 00	positional argume Grid at 0x27dc17fb Barbore State of the second secon	latitude", filatitude", filatitude'>	-114	", alpha=0.:		s without an			
C:\Use on 0.1 nterpr warn <seabo -<="" 10000="" 38="" 50000="" 60000="" 70000="" td=""><td>ers\srivi\anacondada 12, the only valid retation. nings.warn(orn.axisgrid.Jointo 00 00 00 00 10 10 10 10 10 1</td><td>positional argume Grid at 0x27dc17fb a</td><td>natitude", filatitude", filatitude'></td><td>-114 nouse_value use_value'></td><td>", alpha=0.:</td><td></td><td>s without an</td><td></td><td></td><td></td></seabo>	ers\srivi\anacondada 12, the only valid retation. nings.warn(orn.axisgrid.Jointo 00 00 00 00 10 10 10 10 10 1	positional argume Grid at 0x27dc17fb a	natitude", filatitude", filatitude'>	-114 nouse_value use_value'>	", alpha=0.:		s without an			
C:\Use on 0.1 nterpr warn <seabo 60000="" 70000="" 700<="" td=""><td>ers\srivi\anaconda: 12, the only valid retation. 11ngs.warn(100</td><td>positional argume Grid at 0x27dc17fb a</td><td>pel='median_hording_median_sousing_m</td><td>-114 nouse_value use_value'> set. age', 'tota s households 0 126 0 1138 0 177</td><td>", alpha=0.: l_bedrooms' s population 3 322 3 2401 7 496</td><td></td><td>mity_<1H ocean OCEAN ocean O O</td><td>_proximity_INLAND 0 0 0</td><td></td><td>SLAND ocean_r 0 0 0</td></seabo>	ers\srivi\anaconda: 12, the only valid retation. 11ngs.warn(100	positional argume Grid at 0x27dc17fb a	pel='median_hording_median_sousing_m	-114 nouse_value use_value'> set. age', 'tota s households 0 126 0 1138 0 177	", alpha=0.: l_bedrooms' s population 3 322 3 2401 7 496		mity_<1H ocean OCEAN ocean O O	_proximity_INLAND 0 0 0		SLAND ocean_r 0 0 0
C: \Use on 0.1 nterpr warn 70000	ers\srivi\anaconda: 2, the only valid retation. nings.warn(prn.axisgrid.Jointon oo	positional argume Grid at 0x27dc17ft at 0x27dc17f	pel='median_hording_median_state of total_bedrooms and the datase	-il4 nouse_value use_value'> set. age', 'tota s households 0 126 0 1138 0 177 0 219	", alpha=0.: l_bedrooms' s population 3 322 3 2401 7 496 9 558	househo.	mity_<1H ocean OCEAN 0 0	_ proximity_INLAND 0 0		SLAND ocean_r 0 0
C:\Use on 0.1 nterpr warn <seabor< td=""><td>ars\srivi\anacondaid tetation. ings.warn(orn.axisgrid.Jointo orn.</td><td>positional argume Grid at 0x27dc17ft Grid at 0x27dc17ft median_income x="longitude", y ngitude', ylabel=' longitude x="median_income doutput (Y) data ','total_rooms','h alue'] ms housing_median_ag 30 42 67 74 88 69 67 74 89 67 74 89 67 74 89 67 74 89 67 74 89 67 75 76 77 89 67 77 89 67 78 80 67 79 80 67 70 80 67 70 80 80 67 71 80 80 80 80 80 80 80 80 80 8</td><td>in_test_split in_test_split in_tes</td><td>as households as households as 126 age', 'total as 138 as</td><td>", alpha=0.: population </td><td>L) ocean_proxir</td><td>mity_<1H ocean OCEAN O O O O O O O</td><td>_proximity_INLAND 0 0 0 0</td><td></td><td>SLAND ocean_r 0 0 0 0</td></seabor<>	ars\srivi\anacondaid tetation. ings.warn(orn.axisgrid.Jointo orn.	positional argume Grid at 0x27dc17ft Grid at 0x27dc17ft median_income x="longitude", y ngitude', ylabel=' longitude x="median_income doutput (Y) data ','total_rooms','h alue'] ms housing_median_ag 30 42 67 74 88 69 67 74 89 67 74 89 67 74 89 67 74 89 67 74 89 67 75 76 77 89 67 77 89 67 78 80 67 79 80 67 70 80 67 70 80 80 67 71 80 80 80 80 80 80 80 80 80 8	in_test_split in_tes	as households as households as 126 age', 'total as 138 as	", alpha=0.: population	L) ocean_proxir	mity_<1H ocean OCEAN O O O O O O O	_proximity_INLAND 0 0 0 0		SLAND ocean_r 0 0 0 0
C:\Use on 0.1 nterpr warn	ers\srivi\anaconda; the only valid etation. ings.warn(orn.axisgrid.Jointo orn.axisgri	positional argume Grid at 0x27dc17ft Grid at	relatitude", filatitude'> latitude'> latitude''> latitude'''> latitude'''> latitude'''' latitude''''''''''''''''''''''''''''''''''''	s households s households age','tota s households a 126 age','tota s households a 126 age','tota y, y, train_ y, y, train_	", alpha=0.3 l_bedrooms', s population 3 322 3 2401 7 496 9 558 9 565	ocean_proxir	mity_<1H ocean OCEAN O O O O O O O	_proximity_INLAND 0 0 0 0		SLAND ocean_r 0 0 0 0
# Ext Since	## Skip Amage Amag	positional argume Grid at 0x27dc17ft Grid at	## 130> ## 130> ## 14	S households 126 137 138 139	", alpha=0.3 a population 3 322 3 2401 7 496 9 558 9 565 size = 0.8, 06404624 55444193 33490581 62304675 26233518 369068 37513591 86294688 7366906	ocean_proxir	mity_<1H ocean OCEAN O O O O O O O	_proximity_INLAND 0 0 0 0		SLAND ocean_r 0 0 0 0
# Ext Since	### Serial Properties of the Company	## Propositional arguments	### ### #### #### #### ##### ##### #####	## A Property of the Company of the	#, alpha=0.: population 322 496 558 565 3401 496 558 565 3401 496 558 565 3402785 64617264 286587 8785746 33865391	ocean_proxir	mity_<1H ocean OCEAN O O O O O O O	_proximity_INLAND 0 0 0 0		SLAND ocean_r 0 0 0 0
# Ext Siling Single Sin	### State	## A Company of the c	### ### #### #### #### #### #### #### ####	## Set. ## Source Set. ##	#, alpha=0.1 #, alpha=0.1 #, alpha=0.1 # population # 322 # 2401 # 496 # 558 # 33490581 # 62304675 # 26231518 # 3490581 # 62304675 # 26231518 # 3490581 # 2747066 # 32441591 # 32441591 # 32441591 # 32516715 # 34027085 # 46478892	random_sta	mity_<1H ocean OCEAN O O O O O O O	_proximity_INLAND 0 0 0 0		SLAND ocean_r 0 0 0 0
Since Sinc	### A	positional argume Grid at 0x27dc17ft Grid at	## 14 ## 15 ## 16	## Touse value Set	#, alpha=0.: # population 3	random_sta	mity_<1H ocean OCEAN O O O O O O O	_proximity_INLAND 0 0 0 0		SLAND ocean_r 0 0 0 0
# Ext Since	## 122	## A serior of the serior of t	## Indicated by the control of the c	510077 -1. nouse_value use_value'> age','tota s households 0 126 0 1136 0 177 0 218 0 258 0 404211 -0. 345981 0. 6404211 -0. 341873 0. 900092 -1. 5014856 -0. 900092 -1. 5014856 -0. 900092 -1. 5014856 -0. 900092 -1. 1345981 0. 6404211 -0. 311873 0. 900092 -1. 1345981 0. 6404211 -0. 31685761 1. 900092 -1. 1685761 1. 900092 -1.	## population	random_sta	ate= 100)	proximity_INLAND O O O O O O O O O O O O O O O O O O O		SLAND ocean_r 0 0 0 0
# # # # # # # # # # # # # # # # # # #	## State Sta	positional argume for id at 0x27dc17ft at 0x27dc1	### ### ### ### ### ### ### ### ### ##	## Anouse_value ## Ano	", alpha=0.: ", alpha=0.: ", alpha=0.: ", alpha=0.: ", 496 0 558 0 2401 7 496 0 558 0 565 0 322 3349081 62304675 26233518 36294688 7366966 23516715 366966 23516715 366966 23516715 37444961 00615208 37513591 86294688 786966 23516715 349478892	random_sta	ate= 100)	proximity_INLAND O O O O O O O O O O O O O O O O O O O		SLAND ocean_r 0 0 0 0
# Axess Since Sin	## Section Sec	positional argume for id at 0x27dc17ft for	### #### #############################	## Touse_value ## Touse_value	## population	random_sta	bsolute_perce	proximity_INLAND O O O O O O O O O O O O O O O O O O		SLAND ocean_r 0 0 0 0
### ##################################	sersivilanaconda sersiv	grid at 0x27dc17ft grid at 0x27dc17ft at 0x27dc17	######################################	######################################	", alpha=0" ", alpha=0" population 3	random_sta	bsolute_perce	proximity_INLAND O O O O O O O O O O O O O O O O O O		SLAND ocean_r 0 0 0 0
# Act #	restriction you did extraction you did	positional argume frid at 0x27dc17ft manufacture frid at 0x27dc	######################################	######################################	", alpha=0." ", al	random_sta	bsolute_perce	proximity_INLAND O O O O O O O O O O O O O O O O O O		SLAND ocean_r 0 0 0 0
## ## ## ## ## ## ## ## ## ## ## ## ##		positional argume Grid at 0x27dc17ft at 0x27dc17ft at 1 1 2 at 1 1 2 at 1 2 at 1 2 at 1 2 at 2 3 at 2 3 at 3 4 at 2 4 at 2 4 at 3 4 at 4 5 at 5 at 6 5 at 6 7 at 7 at 7 at 7 at 6 7 at 7	######################################	######################################	", alpha=0." ", al	random_sta	bsolute_perce	proximity_INLAND O O O O O O O O O O O O O O O O O O		SLAND ocean_r 0 0 0 0
# Ext # San #	## STATE OF THE PROPERTY OF TH	and test datasets. The section import train and train a	######################################	######################################	", alpha=0." ", al	random_sta	bsolute_perce	entage_error		SLAND ocean_r 0 0 0 0
# # # # # # # # # # # # # # # # # # #	### A Provision of the control of th	and test datasets. The section import train and train a	######################################	######################################	", alpha=0." ", al	random_sta	bsolute_perce	entage_error	Actual Actual	SLAND ocean_r 0 0 0 0
# # # # # # # # # # # # # # # # # # #	### ### ### ### ### ### ### ### ### ##	positional arguments find at 0x27dc17ff find	### #### #############################	######################################	", alpha=0.: ", alpha=0.: ", alpha=0.: ", alpha=0.: ", 496 3	random_sta	bsolute_perce	entage_error	ocean_proximity_IS Actual Predicted	SLAND ocean_r 0 0 0 0
# # # # # # # # # # # # # # # # # # #	### ### ### ### ### ### ### ### ### ##	positional argument frid at 0x27dc17ft at 2x7dc17ft at 3x7dc17ft at	######################################	######################################	", alpha=0.: ", alpha=0.: ", alpha=0.: ", alpha=0.: ", 496 3	random_sta	bsolute_perce	entage_error	ocean_proximity_IS Actual Predicted	SLAND ocean_r 0 0 0 0