

pwa

```

08/04/2021 20:49 <DIR> .ipynb_checkpoints
03/07/2020 10:47 5.037 agrupacion por columna.ipynb
18/06/04/2021 20:34 185.106 cufflinks graficos .ipynb
08/04/2021 21:00 3.318 cufflinks.ipynb
03/07/2020 20:14 4.593 data frame con una tabla SQL.ipynb
08/07/2020 18:50 137.765 dataframe df.ipynb
02/02/2020 16:33 7.495 DataFrames modificacion de los nombres de las filas .ipynb
17/06/2020 19:23 7.468 dictionaries.ipynb
08/04/2021 19:14 14.378 ejercicio 1 matplotlib.ipynb
17/06/2020 18:23 1.911 filter .ipynb
17/06/2020 19:30 1.745 funciones.ipynb
03/07/2021 21:83 33.836 Graficos de columna para tipo categoria seaborn.ipynb
09/04/2021 19:31 171.852 Graficos de Regresion.ipynb
08/04/2021 16:08 63.630 heat maps.ipynb
19/04/2021 22:06 31.598 linear regression.ipynb
07/04/2021 18:40 35.966 Matplotlib .ipynb
03/07/2020 12:24 6.613 merge con dataframe.ipynb
17/06/2020 18:39 2.469 numpy con listas.ipynb
08/04/2021 16:08 201.001 pairgrid & Facegrid.ipynb
07/04/2021 19:24 96.134 seaborn .ipynb
02/07/2020 19:34 11.249 seleccion de datos pandas.ipynb
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03/07/2020 12:24 1.385 Untitled1.ipynb
16/04/2021 20:15 2.429 Untitled0.ipynb
08/04/2021 13:05 555 Untitled2.ipynb
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15/04/2021 18:00 555 Untitled4.ipynb
09/02/2021 15:58 1.695 Untitled5.ipynb
10/05/2021 10:32 853 Untitled6.ipynb
15/04/2021 23:06 72.265 Untitled7.ipynb
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02/02/2020 19:35 2.766 valores nulos.ipynb
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3 dirs 354.973.999.104 bytes libres

sas = pd.read_csv('C:/Users/AIfredo/Desktop//Machine Learning//USA_Housin

```

	Avg. Area	Avg. Area House	Avg. Area Number of	Avg. Area Number of	Are
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[illegible]

	79545.458574	5.628261	7.089188
1	79248.642455	6.002908	6.730821
2	61287.067179	5.658599	8.512727
3	63345.240046	7.188236	5.586729
4	59982.197226	5.040555	7.839388
...	...	...	...
4995	60567.944140	7.838362	6.137356
4996	78491.275435	6.999135	6.576763
4997	63399.686886	7.259591	4.895081
4998	68061.331235	5.534388	7.130144
4999	65510.581804	5.992395	6.792336
	Avg. Area Number of Bedrooms	Area Population	Price \
0	4.09	23986.809593	1.059034e+06
1	3.09	40173.072174	1.565991e+06
2	5.13	36802.159490	1.059080e+06
3	3.26	34310.242831	1.266617e+06
4	4.23	26354.109472	6.309435e+05
...	...	...	...
4995	3.46	22837.361035	1.060194e+06
4996	4.02	25616.115489	1.482618e+06
4997	2.13	33266.145490	1.030730e+06
4998	5.44	42625.620156	1.198657e+06
4999	4.07	46501.283803	1.298950e+06
	Address		
0	208 Michael Ferry Apt. 674\nLaurabury, NE 3701...		
1	188 Johnson Views Suite 079\nLake Kathleen, CA...		
2	9127 Elizabeth Stravenue\nDanielstown, WI 06482...		
3	USS Barnett\nFPO AP 44820		
4	USNS Raymond\nFPO AE 09386		
...	...	...	...
4995	USNS Williams\nFPO AP 30153-7653		
4996	PSC 9258, Box 8489\nAPO AA 42991-3352		
4997	4215 Tracy Garden Suite 076\nJoshualand, VA 01...		
4998	USS Wallace\nFPO AE 73316		
4999	37778 George Ridges Apt. 509\nEast Holly, NV 2...		
[5000 rows x 7 columns]>			

4	63345.246046	7.188236	5.586729
4	59982.197226	5.040555	7.839388
...	...	...	...
4995	89567.844140	7.839382	6.137356
4996	78491.275435	6.999135	6.576763
4997	93300.686886	7.258951	4.806081
4998	68801.331235	5.534388	7.130144
4999	65510.581004	5.992305	6.792336
	Avg. Area	Number of Bedrooms	Area Population
0	4.09	23086.880593	1.059034e+06
1	3.09	40173.072174	1.505891e+06
2	5.13	36882.159409	1.058988e+06
3	3.26	34310.242831	1.266617e+06
4	4.23	26354.109472	6.309435e+05
...	...	...	...
4995	3.46	22837.361035	1.060194e+06
4996	4.02	25616.115489	1.482618e+06
4997	2.13	33266.145490	1.038738e+06
4998	5.44	42625.620156	1.198657e+06
4999	4.07	46501.238803	1.298950e+06
	Address		
0	208 Michael Ferry Apt. 674\NLaurebury, NE 3701...		
1	188 Johnson Views Suite 079\NLake Kathleen, CA...		
2	9127 Elizabeth Stravenue\NDanieltown, WI 86482...		
3	USS Barnett\NFPO AP 44820		
4	USNS Raymond\NFPO AE 09386		
4995	USNS Williams\NFPO AP 30153-7653		
4996	PSC 9250, Box 8489\NAP0 AA 42991-3352		
4997	4215 Tracy Garden Suite 070\NJoshualand, VA 01...		
4998	USS Wallace\NFPO AE 73316		
4999	37778 George Ridges Apt. 508\NEast Holly, NV 2...		

Avg  
12

0	79545.458574	5.682861	7.009188	4.09	23086.800503	1.059034e+06	208 Michael Ferry Apt. 674nLaurabury, NE 3701...
1	79248.642455	6.002900	6.730821	3.09	40173.072174	1.505891e+06	188 Johnson Views Suite 079nLake Kathleen, CA...
2	61287.067179	5.865890	8.512727	5.13	36882.159400	1.058988e+06	9127 Elizabeth StravenueInDanieltown, WI 06482...
3	63345.240046	7.188236	5.586729	3.26	34310.242831	1.260617e+06	USS BarnettnFPO AP 44820
4	59982.197226	5.040555	7.839388	4.23	26354.109472	6.309435e+05	USNS RaymondnFPO AE 09386

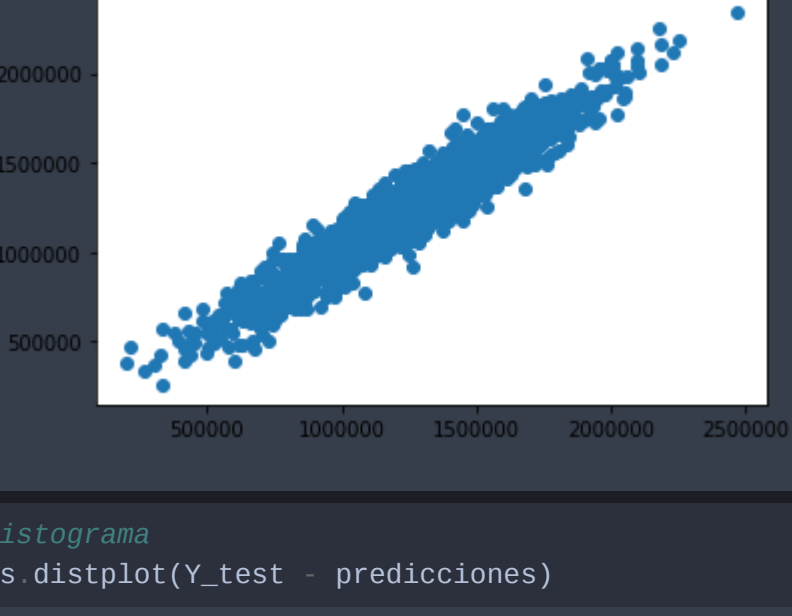
```
casas[['Avg. Area Income', 'Avg. Area House Age', 'Avg. Area Number of Rooms',
       'Avg. Area Number of Bedrooms', 'Area Population']]
```

Avg. Area Income   Avg. Area House Age   Avg. Area Number of Rooms   Avg. Area Number of Bedroom

2115

4437	77345.472379	5.407515	8.243178	3.11	26706.911029
1146	65846.171039	6.385374	6.804131	3.18	28214.363551
2486	69350.793357	6.910415	8.288048	4.29	36779.058567
...	...	...	...	...	...
4426	76223.561256	6.371627	5.342217	2.42	30165.337445
466	56685.014442	6.958045	7.502115	3.38	43322.166854
3092	66195.337714	6.507971	6.611861	3.14	37288.923574
3772	58694.515017	7.394768	9.269453	4.32	49960.977236
860	61162.580254	5.896316	7.880521	6.04	36033.701431
3598 rows x 5 columns					

```
predicciones = lmm.predict()
```



0.0000040



MSE (Media de los errores al cuadrado)