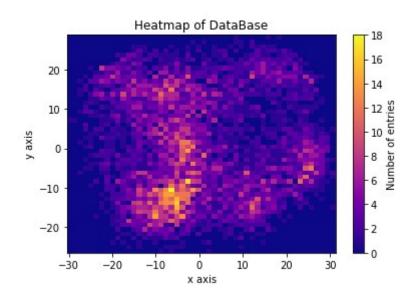
Python 3.7.7 (default, May $\,$ 6 2020, 11:45:54) [MSC v.1916 64 bit (AMD64)] Type "copyright", "credits" or "license" for more information.

IPython 7.13.0 -- An enhanced Interactive Python.



--- Pulsar tecla para continuar ---

CON PREPROCESADO:

Fitting 5 folds for each of 14 candidates, totalling 70 fits
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 52.8s
[Parallel(n_jobs=-1)]: Done 70 out of 70 | elapsed: 1.7min finished

He estudiado estos modelos a los que asigno un índice:

			params	param_estimatorC
0	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	0.0001
1	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	0.0001
2	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	0.0001
3	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	0.0001
4	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	1
5	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	1
6	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	1
7	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	1
8	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	10000
9	{'estimator':	LogisticRegression(C=1.0,	class	10000
10	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	10000
11	{'estimator':	<pre>LogisticRegression(C=1.0,</pre>	class	10000
12	{'estimator':	Perceptron(alpha=0.0001,	class_w	NaN
13	{'estimator':	Perceptron(alpha=0.0001,	class_w	NaN

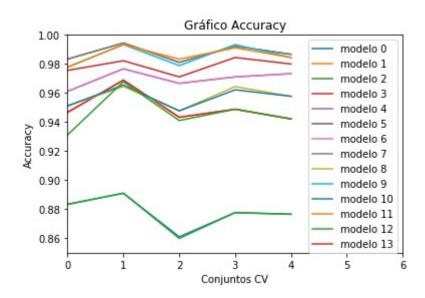
--- Pulsar tecla para continuar ---

Resultados:

rank_test_score mean_fit_time mean_test_score
0 13 0.169153 0.877890

1	10	6.119047	0.949956
2	14	0.335107	0.877668
3	10	18.103411	0.949956
4	6	1.332633	0.969753
5	1	41.407908	0.987545
6	6	1.544068	0.969753
7	1	51.066086	0.987545
8	8	4.051566	0.957074
9	4	6.358805	0.985544
10	9	3.659009	0.956852
11	3	15.864185	0.985989
12	12	0.595410	0.946178
13	5	5.758998	0.978648

--- Pulsar tecla para continuar ---



```
--- Pulsar tecla para continuar ---
Mejor modelo:
 {'estimator': LogisticRegression(C=1.0, class_weight=None, dual=False,
fit_intercept=True,
                   intercept_scaling=1, l1_ratio=None, max_iter=500,
                   multi_class='auto', n_jobs=None, penalty='12',
                   random_state=None, solver='lbfgs', tol=0.0001, verbose=0,
                   warm_start=False), 'estimator__C': 1.0, 'estimator__solver': 'lbfgs',
'poly__degree': 2}
Precisión en training: 100.0
Precisión en test: 98.84341637010677
--- Pulsar tecla para continuar ---
CON PREPROCESADO Y REGULARIZACION:
```

He estudiado estos modelos a los que asigno un índice:

```
params param_estimator__C
{'estimator': LogisticRegression(C=1.0, class_...
                                                              0.0001
{'estimator': LogisticRegression(C=1.0, class_...
                                                              0.0001
                                                              0.0001
{'estimator': LogisticRegression(C=1.0, class_...
```

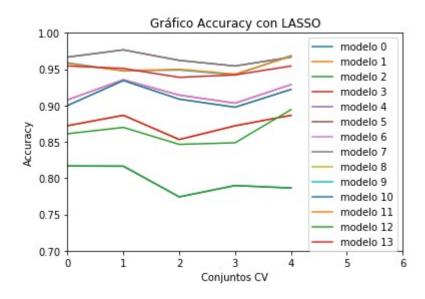
```
{'estimator': LogisticRegression(C=1.0, class_...
                                                                   0.0001
3
4
    {'estimator': LogisticRegression(C=1.0, class_...
                                                                        1
5
    {'estimator': LogisticRegression(C=1.0, class_...
                                                                        1
6
    {'estimator': LogisticRegression(C=1.0, class_...
                                                                        1
7
    {'estimator': LogisticRegression(C=1.0, class_...
                                                                        1
8
    {'estimator': LogisticRegression(C=1.0, class_...
                                                                    10000
    {'estimator': LogisticRegression(C=1.0, class_...
                                                                    10000
10
   {'estimator': LogisticRegression(C=1.0, class_...
                                                                    10000
11
   {'estimator': LogisticRegression(C=1.0, class_...
                                                                    10000
   {'estimator': Perceptron(alpha=0.0001, class_w...
                                                                      NaN
   {'estimator': Perceptron(alpha=0.0001, class_w...
                                                                      NaN
```

--- Pulsar tecla para continuar ---

Resultados:

	rank_test_score	<pre>mean_fit_time</pre>	mean_test_score
0	13	0.161772	0.796704
1	10	0.625724	0.874111
2	13	0.289624	0.796704
3	10	1.882967	0.874111
4	6	0.767945	0.917929
5	1	8.326545	0.965302
6	6	0.871471	0.917929
7	1	8.695554	0.965302
8	8	2.212480	0.912592
9	4	7.555405	0.953291
10	8	2.214275	0.912592
11	3	7.615837	0.953291
12	12	0.207845	0.864102
13	5	1.867201	0.948175

--- Pulsar tecla para continuar ---



--- Pulsar tecla para continuar ---

Mejor modelo:

{'estimator': LogisticRegression(C=1.0, class_weight=None, dual=False, fit_intercept=True,

intercept_scaling=1, l1_ratio=None, max_iter=500,