Demo 19-12-2018

December 19, 2018

1 Segment

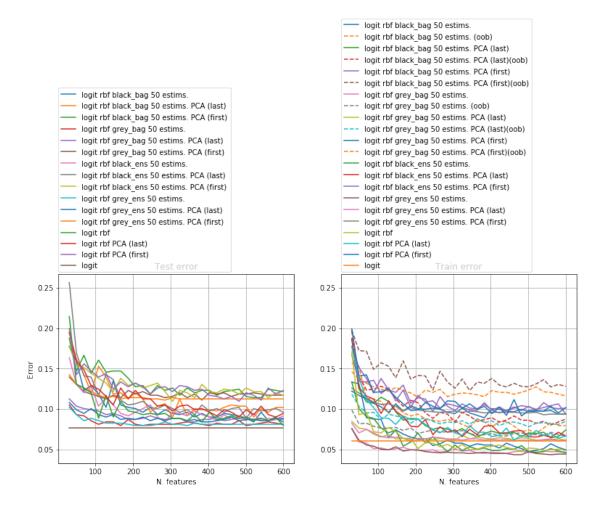
```
In [3]: DemoO().non_interactive(**auto_demo('logit', 'segment'))
```

2 Una demo genérica

/home/hobber/.local/lib/python3.6/site-packages/sklearn/linear_model/logistic.py:757: Converges "of iterations.", ConvergenceWarning)

• Dataset: **segment**

• Size: 2000



3 MNIST

In [5]: Demo0().non_interactive(**auto_demo('logit', 'mnist'))

4 Una demo genérica

LinAlgError Traceback (most recent call last)

<ipython-input-5-d67f21a13180> in <module>
----> 1 Demo0().non_interactive(**auto_demo('logit', 'mnist'))

~/git/TFG/code/notebooks/python/demo_utils/generic_demo.py in non_interactive(self, **

```
59
                            def non_interactive(self, **argw):
                                     display(md(self.desc))
           60
                                     train_scores, test_scores = self.run_demo(**argw)
---> 61
                                     fig = self.get_generic_graph_from_scores(train_scores, test_scores)
           62
                                     # fig.suptitle(self.title)
           63
         ~/git/TFG/code/notebooks/python/demo_utils/demo0.py in run_demo(self, dts_name, dts_si:
                                                         # train_score y test_score son diccionarios
         263
                                                        train_score, test_score =\
         264
                                                                  get_sampling_model_scores(clf, dataset, features)
--> 265
                                                         lab = self.get_label(model_name, sampler_name, box_type,
         266
         267
                                                                                                          n_estim, pca, pca_first)
         ~/git/TFG/code/notebooks/python/demo_utils/learning.py in get_sampling_model_scores(cl:
         292
                                     # print(clf)
                                     # end borrar
         293
--> 294
                                     clf.fit(data_train, target_train)
         295
                                     # TODO sucio, no me gusta nada
                                     if isinstance(clf, BaggingClassifier):
         296
         ~/.local/lib/python3.6/site-packages/sklearn/ensemble/bagging.py in fit(self, X, y, sa
         242
                                     self : object
         243
                                     return self._fit(X, y, self.max_samples, sample_weight=sample_weight)
--> 244
         245
         246
                            def _fit(self, X, y, max_samples=None, max_depth=None, sample_weight=None):
         ~/.local/lib/python3.6/site-packages/sklearn/ensemble/bagging.py in _fit(self, X, y, means to be a self-package of the control of the control
         372
                                                        total_n_estimators,
         373
                                                         verbose=self.verbose)
--> 374
                                               for i in range(n_jobs))
         375
         376
                                     # Reduce
         ~/.local/lib/python3.6/site-packages/sklearn/externals/joblib/parallel.py in __call__(
         981
                                               # remaining jobs.
                                               self._iterating = False
         982
--> 983
                                               if self.dispatch_one_batch(iterator):
         984
                                                         self._iterating = self._original_iterator is not None
         985
```

^{~/.}local/lib/python3.6/site-packages/sklearn/externals/joblib/parallel.py in dispatch_

```
823
                        return False
    824
                    else:
--> 825
                        self._dispatch(tasks)
    826
                        return True
    827
    ~/.local/lib/python3.6/site-packages/sklearn/externals/joblib/parallel.py in _dispatch
                with self._lock:
    780
    781
                    job_idx = len(self._jobs)
--> 782
                    job = self._backend.apply_async(batch, callback=cb)
    783
                    # A job can complete so quickly than its callback is
                    # called before we get here, causing self._jobs to
    784
    ~/.local/lib/python3.6/site-packages/sklearn/externals/joblib/_parallel_backends.py in
    180
            def apply_async(self, func, callback=None):
                """Schedule a func to be run"""
    181
                result = ImmediateResult(func)
--> 182
    183
                if callback:
    184
                    callback(result)
    ~/.local/lib/python3.6/site-packages/sklearn/externals/joblib/_parallel_backends.py in
    543
                # Don't delay the application, to avoid keeping the input
                # arguments in memory
    544
                self.results = batch()
--> 545
    546
    547
            def get(self):
    ~/.local/lib/python3.6/site-packages/sklearn/externals/joblib/parallel.py in __call__(
                with parallel_backend(self._backend):
    259
    260
                    return [func(*args, **kwargs)
                            for func, args, kwargs in self.items]
--> 261
    262
    263
            def __len__(self):
    ~/.local/lib/python3.6/site-packages/sklearn/externals/joblib/parallel.py in listcomp
                with parallel_backend(self._backend):
    259
                    return [func(*args, **kwargs)
    260
--> 261
                            for func, args, kwargs in self.items]
    262
    263
            def __len__(self):
    ~/.local/lib/python3.6/site-packages/sklearn/ensemble/bagging.py in _parallel_build_es
```

```
112
    113
                else:
                    estimator.fit((X[indices])[:, features], y[indices])
--> 114
    115
    116
                estimators.append(estimator)
    ~/.local/lib/python3.6/site-packages/sklearn/pipeline.py in fit(self, X, y, **fit_para
                    This estimator
    263
                11 11 11
    264
                Xt, fit_params = self._fit(X, y, **fit_params)
--> 265
                if self._final_estimator is not None:
    266
    267
                    self._final_estimator.fit(Xt, y, **fit_params)
    ~/.local/lib/python3.6/site-packages/sklearn/pipeline.py in _fit(self, X, y, **fit_para
    228
                        Xt, fitted_transformer = fit_transform_one_cached(
                             cloned_transformer, Xt, y, None,
    229
--> 230
                             **fit_params_steps[name])
    231
                        # Replace the transformer of the step with the fitted
                        # transformer. This is necessary when loading the transformer
    232
    ~/.local/lib/python3.6/site-packages/sklearn/externals/joblib/memory.py in __call__(se
    327
    328
            def __call__(self, *args, **kwargs):
--> 329
                return self.func(*args, **kwargs)
    330
    331
            def call_and_shelve(self, *args, **kwargs):
    ~/.local/lib/python3.6/site-packages/sklearn/pipeline.py in _fit_transform_one(transform_one)
    612 def _fit_transform_one(transformer, X, y, weight, **fit_params):
            if hasattr(transformer, 'fit_transform'):
    613
--> 614
                res = transformer.fit_transform(X, y, **fit_params)
    615
            else:
                res = transformer.fit(X, y, **fit_params).transform(X)
    616
    ~/.local/lib/python3.6/site-packages/sklearn/decomposition/pca.py in fit_transform(sel
    357
                11 11 11
    358
--> 359
                U, S, V = self._fit(X)
    360
                U = U[:, :self.n_components_]
    361
    ~/.local/lib/python3.6/site-packages/sklearn/decomposition/pca.py in _fit(self, X)
```

```
# Call different fits for either full or truncated SVD
   404
   405
                if self._fit_svd_solver == 'full':
--> 406
                    return self._fit_full(X, n_components)
   407
                elif self._fit_svd_solver in ['arpack', 'randomized']:
                    return self._fit_truncated(X, n_components, self._fit_svd_solver)
   408
   ~/.local/lib/python3.6/site-packages/sklearn/decomposition/pca.py in _fit_full(self, X
   435
                X -= self.mean
   436
                U, S, V = linalg.svd(X, full_matrices=False)
--> 437
   438
                # flip eigenvectors' sign to enforce deterministic output
   439
                U, V = svd_flip(U, V)
    ~/.local/lib/python3.6/site-packages/scipy/linalg/decomp_svd.py in svd(a, full_matrice
   130
    131
            if info > 0:
--> 132
                raise LinAlgError("SVD did not converge")
            if info < 0:
    133
                raise ValueError('illegal value in %d-th argument of internal gesdd'
   134
```

LinAlgError: SVD did not converge