Explorando

```
In [1]:
        import pickle
        import pandas as pd
        import numpy as np
        import matplotlib.pyplot as plt
        import seaborn as sns
        import tester
        from sklearn.pipeline import Pipeline
        from sklearn import svm
        from sklearn.grid search import GridSearchCV
        from sklearn.neighbors import KNeighborsClassifier
        from sklearn.ensemble import RandomForestClassifier
        from sklearn.preprocessing import StandardScaler
        from sklearn.cross validation import train test split
        from sklearn.feature selection import SelectKBest
        from feature_format import featureFormat, targetFeatureSplit
        import tester
        %matplotlib inline
```

C:\Users\Daniel Vieira\Anaconda3\envs\py2\lib\site-packages\sklearn\cross_val idation.py:41: DeprecationWarning: This module was deprecated in version 0.18 in favor of the model_selection module into which all the refactored classes and functions are moved. Also note that the interface of the new CV iterators are different from that of this module. This module will be removed in 0.20.

"This module will be removed in 0.20.", DeprecationWarning)

C:\Users\Daniel Vieira\Anaconda3\envs\py2\lib\site-packages\sklearn\grid_sear ch.py:42: DeprecationWarning: This module was deprecated in version 0.18 in f avor of the model_selection module into which all the refactored classes and functions are moved. This module will be removed in 0.20.

DeprecationWarning)

```
In [2]: # Vamos abrir a cerregar dodos os dados para a ánalise
# Usando o With open para melhor uso da memória
with open("final_project_dataset.pkl","rb") as data_file:
    my_dataset = pickle.load(data_file)
```

```
In [3]: # Convertando para pandas para melhor manipulação
# from_dict é por o cojunto de dados está em formato de dicionário
# Assim ficará normal
df = pd.DataFrame.from_dict(my_dataset, orient='index')
```

```
In [4]: # Removendo os valores nulos
df = df.replace('NaN',np.nan)
```

```
Index: 146 entries, ALLEN PHILLIP K to YEAP SOON
Data columns (total 21 columns):
salary
                              95 non-null float64
to messages
                             86 non-null float64
deferral payments
                             39 non-null float64
                             125 non-null float64
total_payments
exercised stock options
                             102 non-null float64
bonus
                             82 non-null float64
restricted stock
                             110 non-null float64
                             86 non-null float64
shared receipt with poi
restricted stock deferred
                             18 non-null float64
total_stock_value
                             126 non-null float64
expenses
                             95 non-null float64
                             4 non-null float64
loan advances
                             86 non-null float64
from messages
other
                             93 non-null float64
from_this_person_to_poi
                             86 non-null float64
poi
                             146 non-null bool
director fees
                             17 non-null float64
deferred income
                             49 non-null float64
long term incentive
                             66 non-null float64
email address
                             111 non-null object
from poi to this person
                             86 non-null float64
dtypes: bool(1), float64(19), object(1)
memory usage: 24.1+ KB
```

Pode-se observar que que temos 146 individuos e que a grande maioria dos dados são float, apenas a linha "poi" é boolean e os emails são object (Texto), e é possivel observar que após a remoção dos valores nulos, algumas variaveis ficaram com poucas observações, sendo elas observações de ambito financeiro, irei substituir por 0, e as as variaveis de email irei preencher com a média dos valores dos outros

```
In [7]:
        # verificando novamento o conjunto de dados
         df.info()
        <class 'pandas.core.frame.DataFrame'>
        Index: 146 entries, ALLEN PHILLIP K to YEAP SOON
        Data columns (total 21 columns):
        salary
                                      95 non-null float64
        to messages
                                      86 non-null float64
        deferral_payments
                                      39 non-null float64
        total payments
                                      125 non-null float64
                                      102 non-null float64
        exercised_stock_options
        bonus
                                      82 non-null float64
                                      110 non-null float64
        restricted stock
        shared receipt with poi
                                      86 non-null float64
        restricted_stock_deferred
                                      18 non-null float64
        total stock value
                                      126 non-null float64
                                      95 non-null float64
        expenses
        loan advances
                                      4 non-null float64
        from messages
                                      86 non-null float64
        other
                                      93 non-null float64
        from_this_person_to_poi
                                      86 non-null float64
                                      146 non-null bool
        poi
        director fees
                                      17 non-null float64
        deferred income
                                      49 non-null float64
        long term incentive
                                      66 non-null float64
        email address
                                      111 non-null object
        from_poi_to_this_person
                                      86 non-null float64
        dtypes: bool(1), float64(19), object(1)
        memory usage: 24.1+ KB
In [8]: df['poi'].value_counts()
Out[8]: False
                  128
        True
                   18
        Name: poi, dtype: int64
In [9]:
        df['poi'].value counts(normalize = True)
Out[9]: False
                  0.876712
        True
                  0.123288
```

Name: poi, dtype: float64

```
In [10]: not_null = df.count()
   it_null = df.isna().sum()
   poi = df[df['poi'] == True].count()

   table_1 = pd.concat([not_null, it_null], axis=1)
   table_1 .columns = ['Vars','NaN']
   table_1['P_Var_NaN'] = table_1['NaN']/df.shape[0]
   table_1.drop(index = 'poi', inplace = True)
   table_1
```

Out[10]:

	Vars	NaN	P_Var_NaN
salary	95	51	0.349315
to_messages	86	60	0.410959
deferral_payments	39	107	0.732877
total_payments	125	21	0.143836
exercised_stock_options	102	44	0.301370
bonus	82	64	0.438356
restricted_stock	110	36	0.246575
shared_receipt_with_poi	86	60	0.410959
restricted_stock_deferred	18	128	0.876712
total_stock_value	126	20	0.136986
expenses	95	51	0.349315
loan_advances	4	142	0.972603
from_messages	86	60	0.410959
other	93	53	0.363014
from_this_person_to_poi	86	60	0.410959
director_fees	17	129	0.883562
deferred_income	49	97	0.664384
long_term_incentive	66	80	0.547945
email_address	111	35	0.239726
from_poi_to_this_person	86	60	0.410959

```
In [11]: table_1.shape[0]
```

Out[11]: 20

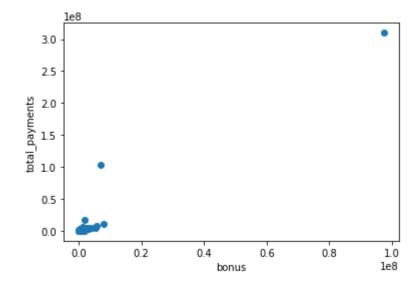
Apenas a variavel "email_address" está faltanto dados, mas como se trata de emails, são dados que realmente não ha possibilidade de preencher

```
# Explorando a vaviravel total payments
          df['total_payments'].describe() , df['salary'].describe()
Out[12]: (count
                    1.250000e+02
          mean
                    5.081526e+06
           std
                    2.906172e+07
          min
                    1.480000e+02
          25%
                    3.944750e+05
          50%
                    1.101393e+06
          75%
                    2.093263e+06
                    3.098866e+08
          max
          Name: total_payments, dtype: float64, count
                                                            9.500000e+01
                    5.621943e+05
          mean
                    2.716369e+06
          std
                    4.770000e+02
          min
          25%
                    2.118160e+05
                    2.599960e+05
          50%
          75%
                    3.121170e+05
                    2.670423e+07
          max
          Name: salary, dtype: float64)
```

Avalinando a variável "total_payments" ou total pago, é novavél uma grande discrepancia do valor minimo pelo valor maximo,e 75% dos dados, ou seja aprox 110 dos 146 receberam na faixa de 2 dezenas a menos que os 36 restantes, isso pode ser um outline, é preciso verificar

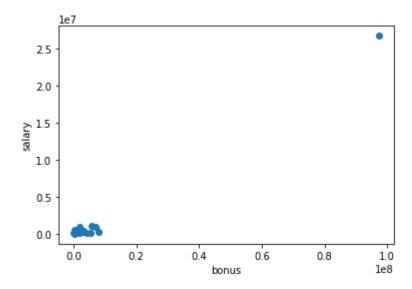
```
In [13]: plt.scatter(df['bonus'],df['total_payments'])
    plt.xlabel('bonus')
    plt.ylabel('total_payments')
```

Out[13]: Text(0,0.5, 'total_payments')





Out[14]: Text(0,0.5,'salary')



plotantdo algumas variáveis, é notavel que no cojunto de dados tem algum outline

Out[15]:

	salary	to_messages	deferral_payments	total_payments	exercised_stock_
TOTAL	26704229.0	NaN	32083396.0	309886585.0	311764000.0

```
1 rows × 21 columns
```

aparentemente existe um somatório no total nas observações, como "TOTAL" nao pode ser considerado um POI, vamos retirar o mesmo

```
In [16]: # Excluindo a observação "TOTAL"
df = df.drop(['TOTAL'],axis = 0)
```

In [17]: # Verificando se o mesmo foi excluido
df[df['salary']==df['salary'].max()]

Out[17]:

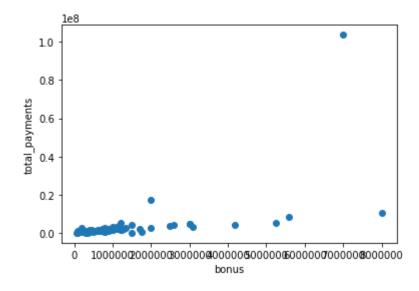
	salary	to_messages	deferral_payments	total_payments	exercised_stock
SKILLING JEFFREY K	1111258.0	3627.0	NaN	8682716.0	19250000.0

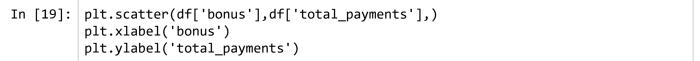
1 rows × 21 columns

Agora so temos pessoas no cojunto de dados, vamos checar novamente como está a dospersão dos dados

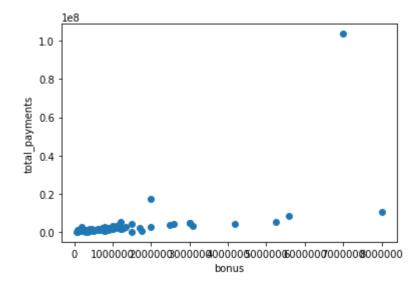
```
In [18]: plt.scatter(df['bonus'],df['total_payments'])
    plt.xlabel('bonus')
    plt.ylabel('total_payments')
```

Out[18]: Text(0,0.5,'total_payments')





Out[19]: Text(0,0.5,'total_payments')



Ainda temos algums pontos extremos, vamos verificar se essas pessoas são POIS

In [20]: df.nlargest(5,'salary')[df['poi']==False]

C:\Users\Daniel Vieira\Anaconda3\envs\py2\lib\site-packages\ipykernel_launche
r.py:1: UserWarning: Boolean Series key will be reindexed to match DataFrame
index.

"""Entry point for launching an IPython kernel.

Out[20]:

	salary	to_messages	deferral_payments	total_payments	exercised_sto
FREVERT MARK A	1060932.0	3275.0	6426990.0	17252530.0	10433518.0
PICKERING MARK R	655037.0	898.0	NaN	1386690.0	28798.0
WHALLEY LAWRENCE G	510364.0	6019.0	NaN	4677574.0	3282960.0

3 rows × 21 columns

10/14/2018 EDA Projeto Eron

```
In [21]: df.nlargest(5,'total_payments')[df['poi']==False]
```

C:\Users\Daniel Vieira\Anaconda3\envs\py2\lib\site-packages\ipykernel_launche
r.py:1: UserWarning: Boolean Series key will be reindexed to match DataFrame
index.

"""Entry point for launching an IPython kernel.

Out[21]:

	salary	to_messages	deferral_payments	total_payments	exercised_s
FREVERT MARK A	1060932.0	3275.0	6426990.0	17252530.0	10433518.0
BHATNAGAR SANJAY	NaN	523.0	NaN	15456290.0	2604490.0
LAVORATO JOHN J	339288.0	7259.0	NaN	10425757.0	4158995.0

3 rows × 21 columns

Aparentemnte o FREVERT MARK A, LAVORATO JOHN J, WHALLEY LAWRENCE G aparentam ser um outlines porem eles estão classificados como não POI, pode ser que eles sejam de cargo executivo com alto salário, é interessante em retirar essas pessoas.

BHATNAGAR SANJAY parece que foi inserido errado, não faz sentido alguem com salário zerado está entre os 3 que mais receberam e ainda não ser um POI

```
In [22]:
         # removendo as pessoas
         df = df.drop(['FREVERT MARK A', 'LAVORATO JOHN J',
                         'WHALLEY LAWRENCE G', 'BHATNAGAR SANJAY'], axis =0)
In [23]: | df['poi'].value_counts()
Out[23]: False
                   123
         True
                    18
         Name: poi, dtype: int64
In [24]: df['poi'].value_counts(normalize = True)
Out[24]: False
                   0.87234
         True
                   0.12766
         Name: poi, dtype: float64
```

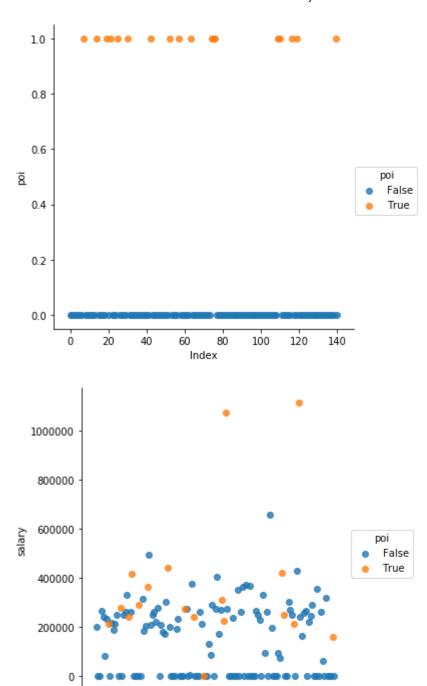
Após a limpeza de dados, temos 18 POI correspondendo a 12.8% dos individos

```
In [25]: df.info()
         <class 'pandas.core.frame.DataFrame'>
         Index: 141 entries, ALLEN PHILLIP K to YEAP SOON
         Data columns (total 21 columns):
         salary
                                       91 non-null float64
         to messages
                                       82 non-null float64
         deferral payments
                                       37 non-null float64
                                       120 non-null float64
         total_payments
         exercised_stock_options
                                       97 non-null float64
                                       78 non-null float64
         bonus
                                       105 non-null float64
         restricted stock
                                       82 non-null float64
         shared receipt with poi
         restricted stock deferred
                                       16 non-null float64
         total_stock_value
                                       122 non-null float64
         expenses
                                       91 non-null float64
                                       2 non-null float64
         loan advances
         from messages
                                       82 non-null float64
         other
                                       88 non-null float64
         from_this_person_to_poi
                                       82 non-null float64
         poi
                                       141 non-null bool
         director fees
                                       15 non-null float64
         deferred income
                                       47 non-null float64
                                       62 non-null float64
         long term incentive
         email address
                                       107 non-null object
         from_poi_to_this_person
                                       82 non-null float64
         dtypes: bool(1), float64(19), object(1)
         memory usage: 23.3+ KB
In [26]:
         new features =[]
         df['p_bonus'] = df['bonus']/df['total_payments']
         df['p salary'] = df['salary']/df['total payments']
         new_features.append('p_bonus')
         new_features.append('p_salary')
In [27]:
         df['p_to_poi'] = df['from_poi_to_this_person'] / df['to_messages']
         df['p_shared_poi'] = df['shared_receipt_with_poi'] / df['to_messages']
         new features.append('p to poi')
         new_features.append('p_shared_poi')
```

In [28]:

df = df.replace('NaN',np.nan)

df = df.fillna(0.0)



ò

20

40

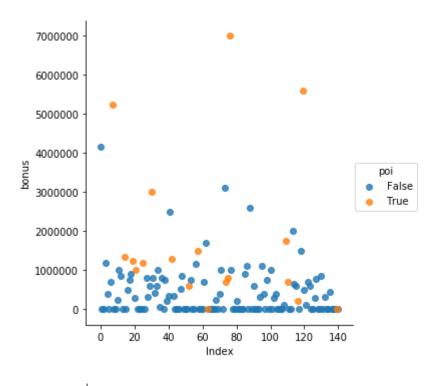
60

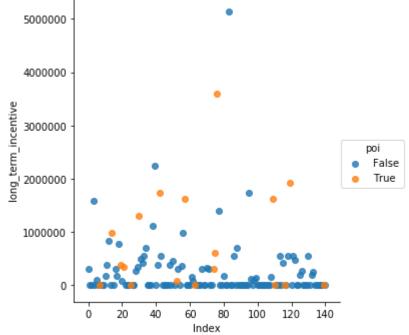
Index

80

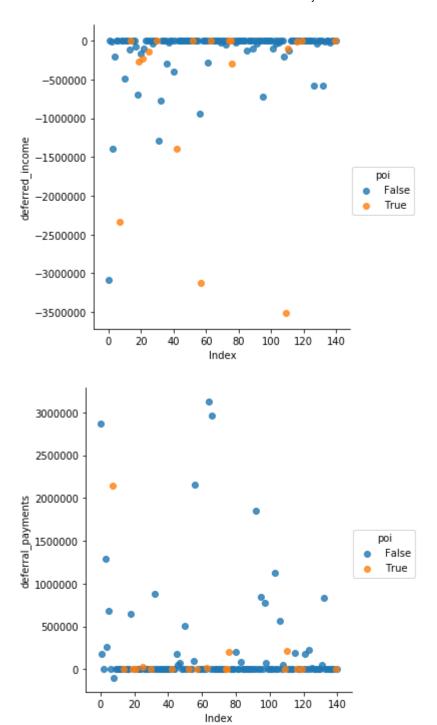
100

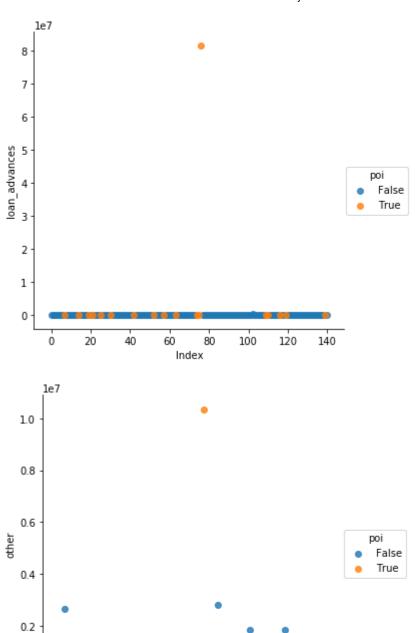
120





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60

40

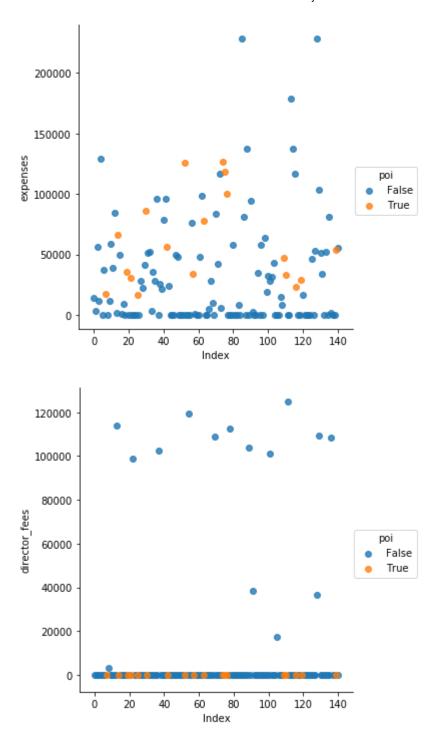
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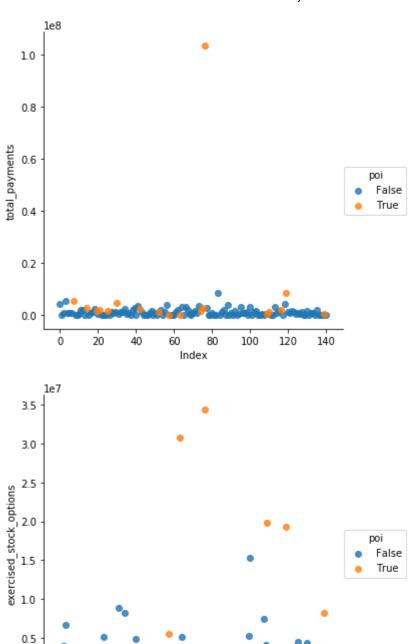
) 80 Index 120

140

0.0

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60

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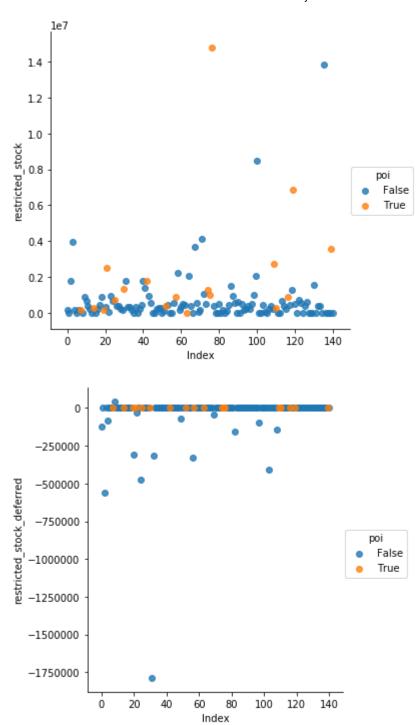
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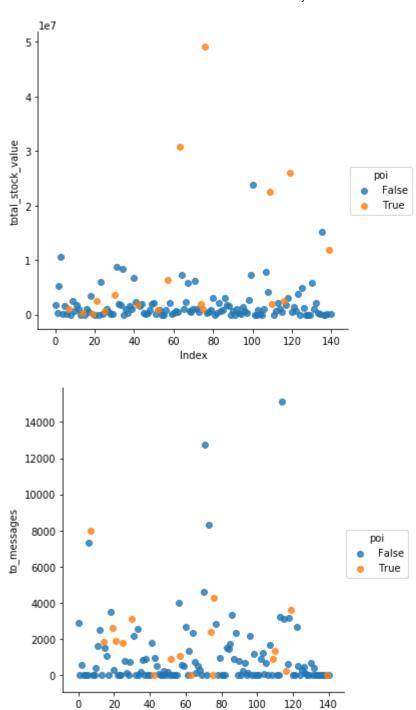
) 80 Index 120

140

0.0

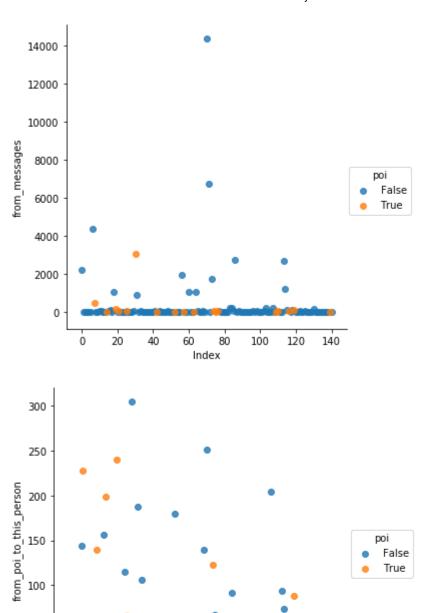
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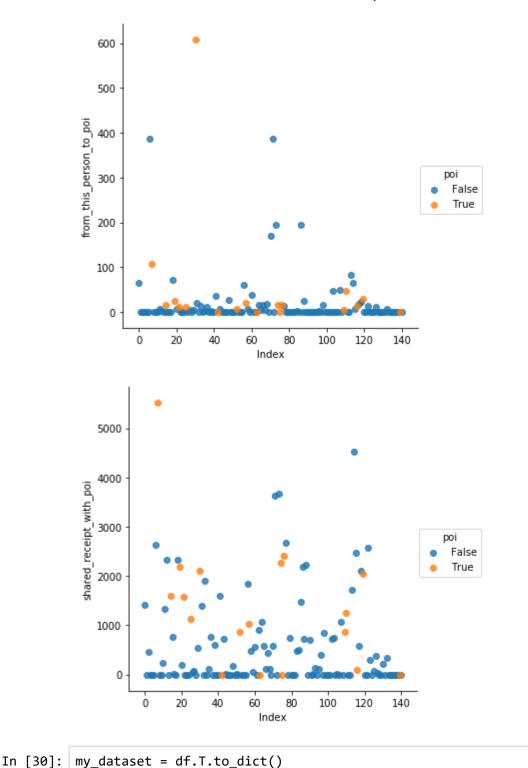
Index

10/14/2018 EDA Projeto Eron



Index

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SVM com todas a Features

```
In [409]: data = featureFormat(my_dataset, features_list, sort_keys = True)
labels, features = targetFeatureSplit(data)
```

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10/14/2018 EDA Projeto Eron

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```
Pipeline(memory=None,
     steps=[('scaler', StandardScaler(copy=True, with_mean=True, with_std=Tru
e)), ('selector', SelectKBest(k=18, score func=<function f classif at 0x00000
0000C331828>)), ('svm', SVC(C=50, cache size=200, class weight=None, coef0=0.
0,
 decision_function_shape='ovr', degree=2, gamma=0.1, kernel='poly',
 max iter=-1, probability=False, random state=None, shrinking=True,
 tol=0.001, verbose=False))])
        Accuracy: 0.83957
                                Precision: 0.40509
                                                        Recall: 0.26250 F1:
0.31857 F2: 0.28238
        Total predictions: 14000
                                        True positives: 525
                                                                False positiv
es: 771
                False negatives: 1475
                                        True negatives: 11229
```


Out[375]:

	Feature	Score
2	bonus	38.898768
1	salary	25.596746
11	exercised_stock_options	25.349842
14	total_stock_value	24.103581
3	long_term_incentive	21.175191
4	deferred_income	16.713754
17	from_poi_to_this_person	14.166948
19	shared_receipt_with_poi	14.136210
10	total_payments	10.286364
12	restricted_stock	8.246575
7	other	7.997446
6	loan_advances	7.206451
8	expenses	5.142709
18	from_this_person_to_poi	4.553716
15	to_messages	3.038600
9	director_fees	1.893497
13	restricted_stock_deferred	0.855352
5	deferral_payments	0.079225

SVM com as features e paramentros selecionados pelo GridSearchCV

```
In [376]: data = featureFormat(my dataset, best features, sort keys = True)
          labels, features = targetFeatureSplit(data)
In [377]:
          from sklearn import svm
          svm = Pipeline([('scaler',StandardScaler()), ('svm',svm.SVC())])
          param grid = ([{'svm C': [50],
                           'svm__gamma': [0.1],
                           'svm degree':[2],
                           'svm kernel': ['poly']}])
          svm clf = GridSearchCV(svm, param grid, scoring='recall', cv = 10).fit(feature
          s, labels).best_estimator_
          tester.test_classifier(svm_clf, my_dataset,best_features)
          Pipeline(memory=None,
               steps=[('scaler', StandardScaler(copy=True, with mean=True, with std=Tru
          e)), ('svm', SVC(C=50, cache_size=200, class_weight=None, coef0=0.0,
            decision function shape='ovr', degree=2, gamma=0.1, kernel='poly',
            max_iter=-1, probability=False, random_state=None, shrinking=True,
            tol=0.001, verbose=False))])
                  Accuracy: 0.84071
                                          Precision: 0.41127
                                                                  Recall: 0.26650 F1:
          0.32342 F2: 0.28668
                  Total predictions: 14000
                                                  True positives: 533
                                                                           False positiv
          es: 763
                          False negatives: 1467 True negatives: 11237
```

SVM com as novas Features

```
In [410]: total_features = []
  total_features += features_list + new_features

data = featureFormat(my_dataset,total_features, sort_keys = True)
  labels, features = targetFeatureSplit(data)
```

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Pipeline(memory=None,

steps=[('scaler', StandardScaler(copy=True, with_mean=True, with_std=Tru
e)), ('selector', SelectKBest(k=13, score_func=<function f_classif at 0x00000
0000C331828>)), ('svm', SVC(C=1000, cache_size=200, class_weight=None, coef0=
0.0,

decision_function_shape='ovr', degree=2, gamma=0.1, kernel='poly',
max_iter=-1, probability=False, random_state=None, shrinking=True,
tol=0.001, verbose=False))])

Accuracy: 0.81300 Precision: 0.34219 Recall: 0.33500 F1:

0.33855 F2: 0.33641

Total predictions: 14000 True positives: 670 False positives: 1288 False negatives: 1330 True negatives: 10712

Out[412]:

	Feature	Score
2	bonus	38.898768
1	salary	25.596746
11	exercised_stock_options	25.349842
14	total_stock_value	24.103581
20	p_bonus	23.829780
3	long_term_incentive	21.175191
4	deferred_income	16.713754
17	from_poi_to_this_person	14.166948
19	shared_receipt_with_poi	14.136210
23	p_shared_poi	10.745080
10	total_payments	10.286364
12	restricted_stock	8.246575
7	other	7.997446

SVM com as novas features e paramentros selecionados pelo GridSearchCV

```
In [413]: data = featureFormat(my_dataset, best_features, sort_keys = True)
labels, features = targetFeatureSplit(data)
```

```
In [414]:
          from sklearn import svm
          svm = Pipeline([('scaler',StandardScaler()), ('svm',svm.SVC())])
          param grid = ([{'svm C': [1000],
                           'svm__gamma': [0.1],
                           'svm__degree':[2],
                           'svm__kernel': ['poly']}])
           svm_clf = GridSearchCV(svm, param_grid, scoring='recall',cv = 5).fit(features,
           labels).best_estimator_
          tester.test_classifier(svm_clf, my_dataset,best_features)
          Pipeline(memory=None,
                steps=[('scaler', StandardScaler(copy=True, with_mean=True, with_std=Tru
          e)), ('svm', SVC(C=1000, cache_size=200, class_weight=None, coef0=0.0,
            decision_function_shape='ovr', degree=2, gamma=0.1, kernel='poly',
            max_iter=-1, probability=False, random_state=None, shrinking=True,
            tol=0.001, verbose=False))])
                  Accuracy: 0.82886
                                           Precision: 0.39919
                                                                    Recall: 0.39200 F1:
          0.39556 F2: 0.39342
                  Total predictions: 14000
                                                   True positives: 784
                                                                            False positiv
          es: 1180
                           False negatives: 1216
                                                   True negatives: 10820
In [415]: best features
Out[415]: ['poi',
            'bonus',
            'salary',
            'exercised_stock_options',
            'total_stock_value',
            'p bonus',
            'long_term_incentive',
            'deferred income',
            'from_poi_to_this_person',
            'shared receipt with poi',
            'p shared poi',
            'total payments'
            'restricted_stock',
            'other']
```

Random Forest com todas as features

```
In [384]: data = featureFormat(my_dataset, features_list, sort_keys = True)
labels, features = targetFeatureSplit(data)
```

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```
Pipeline(memory=None,
     steps=[('scaler', StandardScaler(copy=True, with_mean=True, with_std=Tru
e)), ('selector', SelectKBest(k=12, score func=<function f classif at 0x00000
0000C331828>)), ('rf', RandomForestClassifier(bootstrap=True, class_weight=No
ne, criterion='gini',
            max_depth=None, max_features='auto', max...n_jobs=1,
            oob score=False, random state=None, verbose=0,
            warm start=False))])
                                                        Recall: 0.28050 F1:
        Accuracy: 0.83514
                                Precision: 0.39231
0.32711 F2: 0.29745
        Total predictions: 14000
                                        True positives: 561
                                                                False positiv
es: 869
               False negatives: 1439
                                        True negatives: 11131
```

Out[386]:

	Feature	Score
2	bonus	38.898768
1	salary	25.596746
11	exercised_stock_options	25.349842
14	total_stock_value	24.103581
3	long_term_incentive	21.175191
4	deferred_income	16.713754
17	from_poi_to_this_person	14.166948
19	shared_receipt_with_poi	14.136210
10	total_payments	10.286364
12	restricted_stock	8.246575
7	other	7.997446

Random Forest com as features e paramentros selecionados pelo GridSearchCV

```
In [387]: data = featureFormat(my_dataset, best_features, sort_keys = True)
labels, features = targetFeatureSplit(data)
```

```
In [389]:
          rfm = Pipeline([('scaler',StandardScaler()),('rf',RandomForestClassifier())])
          param grid = ([{'rf n estimators': [3]}])
          rf_clf = GridSearchCV(rfm, param_grid, scoring='recall',cv = 5).fit(features,
          labels).best estimator
          tester.test_classifier(rf_clf, my_dataset, best_features)
          Pipeline(memory=None,
               steps=[('scaler', StandardScaler(copy=True, with mean=True, with std=Tru
          e)), ('rf', RandomForestClassifier(bootstrap=True, class_weight=None, criteri
          on='gini',
                      max depth=None, max features='auto', max leaf nodes=None,
                      min impurity decrease=0.0, min impurity split=None,
                ...n_jobs=1,
                      oob_score=False, random_state=None, verbose=0,
                      warm start=False))])
                  Accuracy: 0.83650
                                          Precision: 0.39552
                                                                  Recall: 0.27350 F1:
          0.32338 F2: 0.29148
                  Total predictions: 14000
                                                  True positives: 547
                                                                          False positiv
                          False negatives: 1453 True negatives: 11164
          es: 836
```

RandomForest usando novas features

```
In [397]: total_features = []
  total_features += features_list + new_features

data = featureFormat(my_dataset,total_features, sort_keys = True)
  labels, features = targetFeatureSplit(data)
```

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Pipeline(memory=None,
     steps=[('scaler', StandardScaler(copy=True, with_mean=True, with_std=Tru
e)), ('selector', SelectKBest(k=5, score func=<function f classif at 0x000000
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e, criterion='gini',
           max_depth=None, max_features='auto', max_...n_jobs=1,
           oob score=False, random state=None, verbose=0,
           warm start=False))])
                                                        Recall: 0.27650 F1:
        Accuracy: 0.83479
                                Precision: 0.38971
0.32349 F2: 0.29356
        Total predictions: 14000
                                        True positives: 553
                                                                False positiv
es: 866
               False negatives: 1447
                                        True negatives: 11134
```

Out[399]:

	Feature	Score
2	bonus	38.898768
1	salary	25.596746
11	exercised_stock_options	25.349842
14	total_stock_value	24.103581
20	p_bonus	23.829780

Testando com as Features e paramentros selecionados pelo GridSearchCV

```
In [400]: data = featureFormat(my_dataset,best_features, sort_keys = True)
labels, features = targetFeatureSplit(data)
```

```
In [401]:
          rfm = Pipeline([('scaler',StandardScaler()),('rf',RandomForestClassifier())])
          param_grid = ([{'rf__n_estimators': [3]}])
          rf_clf = GridSearchCV(rfm, param_grid, scoring='recall', cv = 5).fit(features,
           labels).best estimator
          tester.test_classifier(rf_clf, my_dataset, best_features)
          Pipeline(memory=None,
               steps=[('scaler', StandardScaler(copy=True, with_mean=True, with_std=Tru
          e)), ('rf', RandomForestClassifier(bootstrap=True, class weight=None, criteri
          on='gini',
                      max_depth=None, max_features='auto', max_leaf_nodes=None,
                      min impurity decrease=0.0, min impurity split=None,
                ...n_jobs=1,
                      oob_score=False, random_state=None, verbose=0,
                      warm start=False))])
                  Accuracy: 0.82031
                                          Precision: 0.38859
                                                                   Recall: 0.29300 F1:
          0.33409 F2: 0.30816
                  Total predictions: 13000
                                                  True positives: 586
                                                                           False positiv
               922
                          False negatives: 1414
                                                  True negatives: 10078
          es:
```