



	x[0,1].legend('') x[1,0].legend('')
Mean value per experiment	Accuracy  94.0  92.0  90.0  88.0  88.0  84.0  82.0  80.0  78.0  78.0  76.0  Ratio Pass:Fail   Recall  Precision  90.0  Precision  90.0  Accuracy  90.0  Precision  90.0  Accuracy  90.0  Precision  90.0  Accuracy  90.0  Precision  90.0  Accuracy  90.0  Accuracy  90.0  Precision  90.0  Accuracy  Precision  Prec
e Mean value per experiment	80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 Ratio Pass:Fail Ratio Pass:Fail Ratio Pass:Fail
T Pass->1.5:1<-Fail Pass->3.5:1<-Fail Pass->3.5:1<-Fail Pass->2.5:1<-Fail Pass->2.5:1<-Fail Pass->1.5:1<-Fail Pass->1.5:	The compact involvements of the property of th
pr pr The Stor	GradientBoostingClassifier  addientBoostingClassifier(max_depth=5, max_leaf_nodes=6)  cint('The best estimator is given by %s.' %best_model_method_2)  cint()  cint('The ratio is Class Pass -> %s : 1 <- Class Fail' %size[exp_sample[0]])  be best estimator is given by GradientBoostingClassifier(max_depth=5, max_leaf_nodes=6).  be ratio is Class Pass -> 2 : 1 <- Class Fail  re the predictions into a new column.  credictions_method_2 = best_model_method_2.predict(data_for_predictions.iloc[:,:-1])  cta_method_predictions["Pred. Method 2"] = predictions_method_2  cta_method_predictions["Pred. Method 2"] = predictions_method_2
This are som stake inde	smethod was mainly an experiment in order to see how the size of the majority class play a role in the result. Precision and Recall decreasing while the size of the majority class increases. On the one hand, the F1-score, the basic metric, indicates decrease for me models while the sample of the majority class increases, and the optimal algorithm, the GradientBoostingClassifier, shows a bility on the other hand. The features importances points out that the continunous features and the feature_1048 are important expendent variables for the model.  ## Method 3: Reduce the dimensions using FactorAnalysis and employing classifiers with the correlated features to the target variable based on the kendall method. I sort them and give them to the FactorAnalysis.    Description   Desc
	<pre>Feature_2', Feature_1204', Feature_1392', Feature_1342', Feature_1511', Feature_1405', Feature_1453', Feature_1470', Feature_1240', Feature_1156', Feature_1156', Feature_1149', Feature_1149', Feature_1420', Feature_1420', Feature_1420', Feature_149', Feature_149', Feature_149', Feature_149', Feature_149', Feature_149', Feature_149', Feature_149', Feature_149', Feature_1410', Feature_1410'</pre>
App fra	<pre>feature_1433', feature_1530', feature_1044', feature_1137']  plying FactorAnalysis to reduce the dimensionality  com sklearn.decomposition import FactorAnalysis  a = FactorAnalysis(n_components=len(data_for_predictions[row_of_columns])) a.fit_transform(data_for_predictions[row_of_columns])  cay([[ 0.07270904, -0.3500975 , -0.15344988,, 0.</pre>
m m1 m2 cc	<pre>[ 0.23993697, -0.2725738 , -0.19494719,, 0.</pre>
Cor Cor Cor Cor Cor Cor Cor Cor Cor Cor	<pre>screate a pandas series and sort the values to see the distribution.  omponents_distr_features = pd.Series(components_var, index=fa_components).sort_values(ascending=False) omponents_distr_features  mponent_1</pre>
Cor Cor Cor Cor Cor Cor Cor Cor Cor Cor	mponent_12
[36 67 84 94 99 99 99 99	<pre>summa = np.array(components_distr_features.values[:i+1]).sum() cumulative_distributions.append(summa)  mulative_distributions  5.17179385150387, 7.53261548328518, 4.08823178461736, 4.19897409825595, 5.84868812952824, 7.77327696590733, 8.68923779186454, 9.32325935292488, 9.56313456748751, 9.70021087384022, 9.82648067081276, 9.88379992107674, 9.92960732274896,</pre>
99 99 10 10 10 10 10 10 10 99 99 99	9.96189592270649, 9.98313656758684, 9.99908520585745, 00.0,
Percent	20
nu si i wh nu pr Apr Let' fa x_ da da	act the features based on the 80% threshold.  The first of components = 1 minber of components + 1 minber of components =
nu su i wh wh nu pr App Let' fa X_ da	10.1   2.6 0.3 0.9 0.6 0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0
171 171 171 171 171 171 171 171 171 171	and the distance based on the 60% shoulded by the threshold of 50% and select the number of components. This means that i can take the first 3.  In consistent of the distance based on the 60% shoulded by the threshold of 50% and select the number of components. This means that i can take the first 3.  In consistent of the components of the first of the f
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