
Algorithm 2: Employee Turn out prediction using state of the art algorithms(Algorithm Analysis)

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1 Xtrain,Ytrain,Xtest,Ytest:=SBSFeatureSelector(Xtrain,Ytrain,Xtest,Ytest);
2 Select the best scoring common three features by calling
   featureImportanceWRforest(*paramlist) AND chiCalculation(*paramlist);
3 Subsequently Xtrain,Ytrain,Xtest,Ytest will contain no more than three features;
4 algoList=['DecisionTree','RandomForest','SVM','MLPClassifier','GaussianNB','KNN'];
5 i:=0;
6 do
7   classifier:=Create a classifier of algoList(i);
8   classifier.fit(Xtrain,Ytrain);
9   display training accuracy using classifier.score(Xtrain,Ytrain);
10  display testing accuracy using classifier.score(Xtest,Ytest);
11  Ypred:=classifier.predict(Xtest);
12  confusionMatrix:=confusionMatrix(Ytest,Ypred);
13  df:=create new data frame columns using Xtest AND Ypred columnwise;
14  X:=df.locationIndex[eachRow,zerothColumn];
15  Y:=df.locationIndex[eachRow,firstColumn];
16  Z:=df.locationIndex[eachRow,secondColumn];
17  plot population with red mark where df[Z.eachRow]>0 otherwise plot with blue mark;
18  visualize3D(X,Y,Z);
19  i:=i+1;
20 while (i <= (algoList.length() - 1));
```
