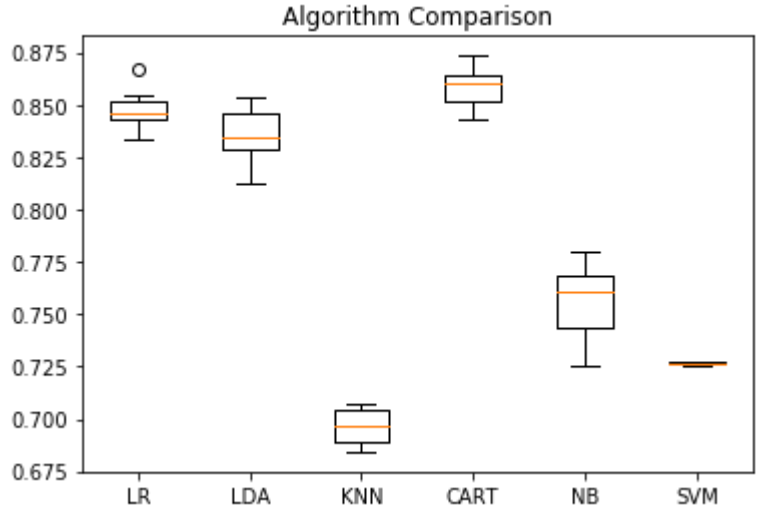
In [1]:
```
import pandas as pd
import numpy as np
df=pd.read_csv('finalcorona.csv')
```

In [2]:
```
x=df.iloc[:,5:-2]
y = df.iloc[:,-1]

from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test=train_test_split(x,y,test_size=0.1,random_state=
3)
```

In [5]:
```
from sklearn.model_selection import train_test_split
from sklearn.model_selection import cross_val_score
from sklearn.model_selection import StratifiedKFold
from sklearn.metrics import classification_report
from sklearn.metrics import confusion_matrix
from sklearn.metrics import accuracy_score
from sklearn.linear_model import LogisticRegression
from sklearn.tree import DecisionTreeClassifier
from sklearn.neighbors import KNeighborsClassifier
from sklearn.discriminant_analysis import LinearDiscriminantAnalysis
from sklearn.naive_bayes import GaussianNB
from sklearn.svm import SVC


models = []
models.append(('LR', LogisticRegression(solver='liblinear', multi_class='ovr'
)))

models.append(('LDA', LinearDiscriminantAnalysis()))
models.append(('KNN', KNeighborsClassifier()))
models.append(('CART', DecisionTreeClassifier()))
models.append(('NB', GaussianNB()))
models.append(('SVM', SVC(gamma='auto')))
# evaluate each model in turn
results = []
names = []
for name, model in models:
        kfold = StratifiedKFold(n_splits=10, random_state=1, shuffle=True)
        cv_results = cross_val_score(model, X_train, y_train, cv=kfold, scorin
g='accuracy')
        results.append(cv_results)
        names.append(name)
        print('%s: %f (%f)' % (name, cv_results.mean(), cv_results.std()))
```

```
LR: 0.847028 (0.009401)
LDA: 0.835824 (0.011517)
KNN: 0.696430 (0.007981)
CART: 0.858529 (0.008384)
NB: 0.755962 (0.016016)
SVM: 0.726406 (0.000466)
```

In [7]:
```
from matplotlib import pyplot

# Compare Algorithms
pyplot.boxplot(results, labels=names)
pyplot.title('Algorithm Comparison')
pyplot.show()
```



In [ ]: