import numpy as np

import pandas as pd

from sklearn.model\_selection import train\_test\_split

from sklearn.tree import DecisionTreeClassifier

from sklearn.metrics import accuracy\_ score

from sklearn import tree

lead\_data = pd.read\_csv(‘leadsales.csv’, header=0)

print “Dataset Length”, len(lead\_data)

print “Dataset Shape”, lead\_data.shape

X= lead\_data.values[:, 0:2]

Y= lead\_data.values[:, 3]

X\_train, X\_test, Y\_train, Y\_test = train\_test\_split(X,Y, test\_size=0.5)

#Training

my\_lead\_classifier = tree.DecisionTreeClassifier()

my\_lead\_classifer.fit(X\_train, Y\_train)

predictions = my\_lead\_classifer.predict(X\_test)

print accuracy\_score(Y\_test, predictions)

#If you want to check for a particular value use: my\_leads\_classifier.predict([1,1,1])

#Conversion

Import coremltools

coreml\_lead\_model = coremltools.converters.sklearn.convert(my\_lead\_classifier)

#Editing

coreml\_lead\_model.author = ‘Garrett Osborne’

coreml\_lead\_model.short\_description = ‘Predicts Valid Internet Leads’

coreml\_lead\_model.save(‘lead.mlmodel’)