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In [8]: from sklearn.neural_network import MLPClassifier
import numpy as np
import pandas as pd
def splitInputOutput(data):
    x, y = np.array(data[:,0:-1], dtype=float), np.array(data[:,-1],dtype=int)
    y = np.squeeze(np.asarray(y)) #y.reshape(1,len(y)).T
    return x,y
df = pd.read_csv('data/prepared/dataWithTempRandomized.train.csv',sep=',',names=["Temp", "Nausea", "Lumbar", "Pushing","Micturi
df["Temp"] = df.transform(lambda x: x - 37)
X,y = splitInputOutput(df.as matrix())
clf = MLPClassifier(solver='lbfgs', alpha=1e-5,
                     hidden layer sizes=(X.shape[1], X.shape[0]), random state=1)
clf.fit(X, y)
df = pd.read csv('data/prepared/dataWithTempRandomized.test.csv',sep=',',names=["Temp", "Nausea", "Lumbar", "Pushing","Micturit
df["Temp"] = df.transform(lambda x: x - 37)
X,y = splitInputOutput(df.as matrix())
result = clf.predict(X)
mse = 0.5*np.sum((y - result)**2)
result = np.double(result > 0.5)
print()
print("MSE against Test data: ",mse)
print("Accuracy: ",1-np.sum(y-result)/y.shape[0])
```

MSE against Test data: 0.0 Accuracy: 1.0