# python script

from pandas import DataFrame

from pandas import Series

from pandas import concat

from keras.models import Sequential

from keras.layers import Dense

from keras.layers import LSTM

from keras.models import model\_from\_json

#df.to\_csv('/home/pentaho/test\_data.csv', index=False)

# load json and create model

json\_file = open("/home/pentaho/model.json", 'r')

model\_json = json\_file.read()

json\_file.close()

model = model\_from\_json(model\_json)

# load weights into new model

model.load\_weights("/home/pentaho/model.h5")

model.compile(loss='mean\_squared\_error', optimizer='adam',metrics=['mean\_squared\_error'])

train = df.values

X, y = train[:, 0:-1], train[:, -1]

X = X.reshape(X.shape[0], 1, X.shape[1])

hist = model.fit(X, y,validation\_split=0.2, nb\_epoch=1000, batch\_size=1, verbose=0, shuffle=False)

#model.reset\_states()

acc\_score = hist.history['loss'][-1]

# serialize model to JSON

model\_json = model.to\_json()

with open("/home/pentaho/model.json", "w") as json\_file:

json\_file.write(model\_json)

# serialize weights to HDF5

model.save\_weights("/home/pentaho/model.h5")