

Concatenate x_TF_hold, x_TF_squeeze identity labels into a single variable. There should be a total of hold + squeeze epoch trial instances.

```
[14]: concatenated_labels = np.concatenate((label_hold, label_squeeze), axis=0)
concatenated_labels
```

[illegible]

3 Create Shuffled Train and Test Data. Build Deep Learning Model.

use sklearn to randomly split train and test data.

[illegible]

```
[16]: print('Samples in Train data shape:', X_train.shape[0])
      print('Samples in Test data shape:', X_test.shape[0])
```

Samples in Train data shape: 174

Samples in Test data shape: 44

Import Keras, high-level API for tensorflow

```
[17]: import keras
      from keras import Sequential
      from keras.layers import Dense, Conv1D, Conv2D, Flatten, MaxPool2D, Dropout
      from keras.utils import plot_model
      from keras.callbacks import EarlyStopping, ModelCheckpoint
      from keras.layers import BatchNormalization
```

Build model