Use vgg16_bidirectional_lstm_train.py to train the model
And use vgg16_bidirectional_lstm_predict.py to do prediction
Feature engineering: uses VGG16 to extract features from individual frame of the video, the sequence of frame features are then taken into bidirectional LSTM recurrent networks for classifier

The trained model can be obtained from following link:
https://drive.google.com/drive/folders/1BnOLVumIyAySMPvMmyDUfIGsOU8RbHIF

Reference: https://github.com/chen0040/keras-video-classifier