## MI hw3 b03902102 廖廷浩

## 1. CNN 模型:

#### Convolution2D 6 層

分別為 32 32 64 64 128 128 dense 為 100 1000

準確率大約為 62%左右,經過四次的 training,把四次的結果做 voting 即可提升至 65%

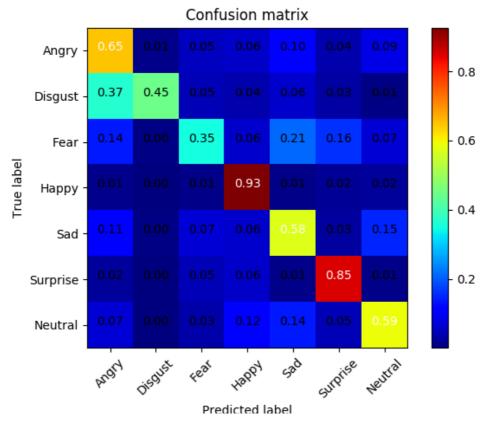
# 2. DNN 模型:

扣除掉 CNN 的部分

Using TensorFlow backend.			
3.py:41: UserWarning: Update your `Dense` call to the Keras 2 API: `Dense(units=150)` model.add(Dense(output_dim=150))			
Layer (type)	Output Shape	Param #	
flatten_1 (Flatten)	(None, 2304)	0	
dense_1 (Dense)	(None, 150)	345750	
activation_1 (Activation)	(None, 150)	0	
dropout_1 (Dropout)	(None, 150)	0	
dense_2 (Dense)	(None, 20)	3020	
activation_2 (Activation)	(None, 20)	0	
dense_3 (Dense)	(None, 7)	147	
activation_3 (Activation)	(None, 7)	0	
Total params: 348,917 Trainable params: 348,917 Non-trainable params: 0			
Train on 22967 samples, validate on 5742 samples  Epoch 1/30 2017-05-04 12:30:52.787765: W tensorflow/core/platform/cpu_feature_guard.cc:45] The TensorFlow library wasn't compi led to use SSE4.1 instructions, but these are available on your machine and could speed up CPU computations. 2017-05-04 12:30:52.787829: W tensorflow/core/platform/cpu_feature_guard.cc:45] The TensorFlow library wasn't compi			

與 cnn 不同在於他不用去跑 mask filter 的圖片,並且因為 dense 的部分可以做

3.



disgust & angry, sad & fear 容易搞混

# 4. 主要 focus 在臉部表情,五官

