Alarm Model Development Flow

1.

datasets/codes/dataset\_generation/  
base\_training\_dataset\_for\_onesecond\_input\_singlefold.ipynb

資料準備與處理

2.

基礎模型訓練

src/Training/Single\_Fold/Step\_1\_Basic\_Training/base\_train\_onesec.ipynb

3.

src/Training/Single\_Fold/Step\_2\_First\_Stage\_Pruning/  
FirstStage\_Pruning\_weighted\_pruning\_with\_select\_fixed\_classes.ipynb

二階段剪枝

src/Training/Single\_Fold/Step\_2\_First\_Stage\_Pruning/  
FirstStage\_Pruning\_weighted\_pruning\_with\_select\_fixed\_classes.ipynb

4.

src/Training/Single\_Fold/Step\_4\_Retrain\_After\_Two\_Stage\_Pruning/retrain\_after\_second\_stage\_pruning\_select\_fixed\_classes.ipynb

剪枝後重訓練

5.

src/Training/Single\_Fold/Step\_4\_Retrain\_After\_Two\_Stage\_Pruning/retrain\_after\_second\_stage\_pruning\_select\_fixed\_classes.ipynb

量化與QAT

6.

量化後重訓練

src/Training/Single\_Fold/Step\_4\_Retrain\_After\_Two\_Stage\_Pruning/retrain\_after\_second\_stage\_pruning\_select\_fixed\_classes.ipynb

7.

轉換成C Array

src/model\_convert/gen\_C\_Model\_from\_TFlite.ipynb

備註：

1、資料集的準備分為訓練與驗證資料集的產生，其中驗證資料集會先讀取驗證用音檔，集中讀取並產生一個.npz檔案，而後再以這個npz檔，產生最後在訓練時用的驗證用的驗證資料集(格式同樣是.npz)。