

Snap Point

TEAM JitterBug

18기 오종균

18기 김창영

```
model = tf.keras.models.Sequential()  
model.add(Conv2D(32, kernel_size, padding='same', input_shape=(18,128,1)))  
model.add(Activation('relu'))  
model.add(MaxPooling2D(pool_size=pool_size))  
model.add(Dropout(0.5))
```

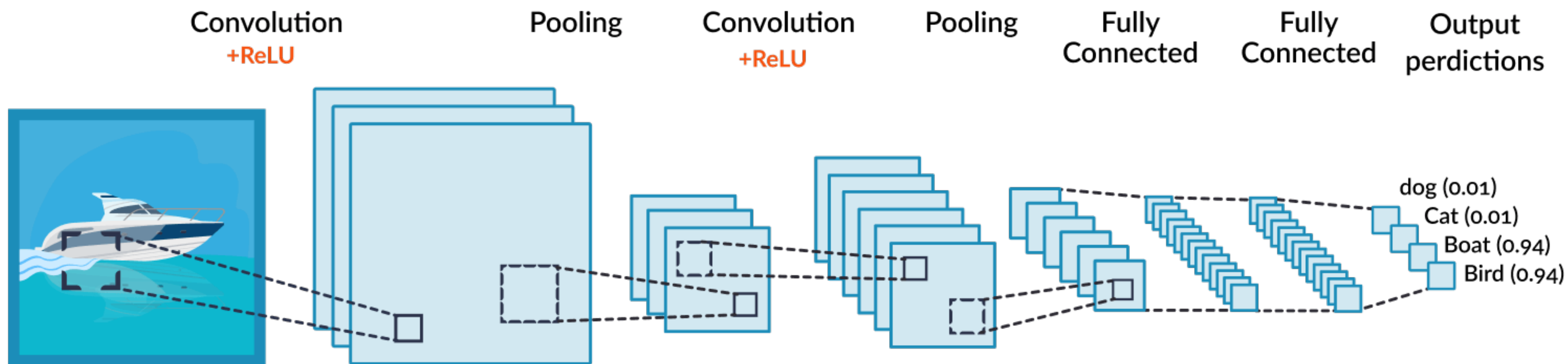
```
model.add(Conv2D(64, kernel_size, padding='same'))  
model.add(Activation('relu'))  
model.add(MaxPooling2D(pool_size=pool_size))  
model.add(Dropout(0.5))
```

```
model.add(Conv2D(128, kernel_size, padding='same'))  
model.add(Activation('relu'))  
model.add(MaxPooling2D(pool_size=pool_size))  
model.add(Dropout(0.5))
```

```
model.add(Flatten())  
model.add(Dense(600))  
model.add(Activation('relu'))  
model.add(Dropout(0.5))  
model.add(Dense(10))  
model.add(Activation('softmax'))
```

```
model.compile(optimizer= 'adam', loss='categorical_crossentropy', metrics = ['accuracy'])
```

CNN



ver_1.0.h5

0 = noise

1 = snap & clap

ver_1.1.h5

0 = noise

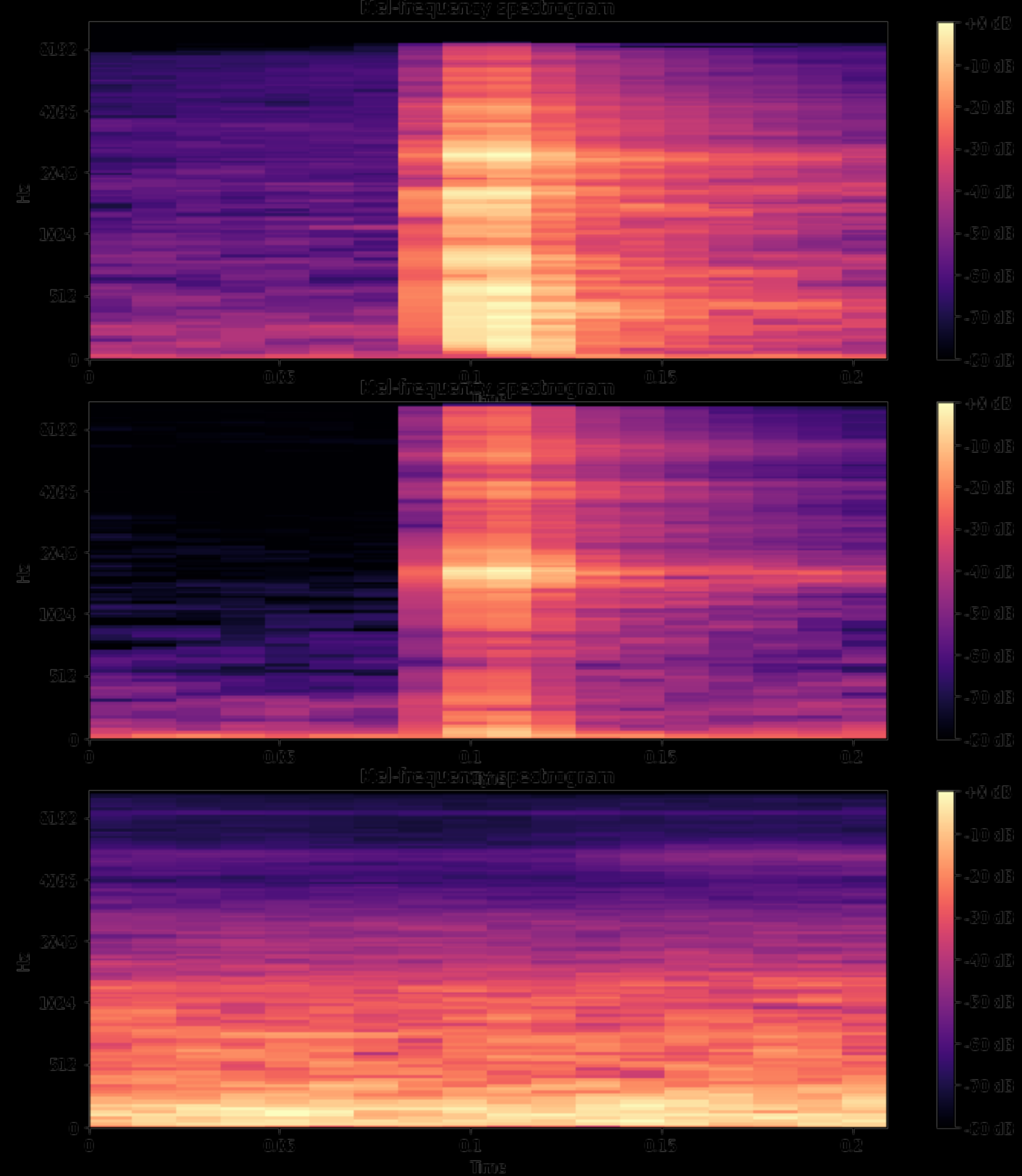
1 = snap

2 = clap

clap

snap

noise



근데 어떻게 컨트롤하지?



PyAutoGUI

Python Module for
Programmatically Controlling
the Mouse and Keyboard


```
pyautogui.press('space')
```

```
pyautogui.keyDown('shift')
```

```
pyautogui.press('n')
```

```
pyautogui.keyUp('shift')
```

```
def test(sample):  
    data = standardized_mfcc(sample)  
    predictions = loaded_model.predict(~~~~~)  
    if numpy.argmax(predictions) == 1:  
        # PowerPoint, KeyNote : Next Slide  
        # YouTube, Netflix, Music : Toggle Play / Pause  
→ pyautogui.press('space')  
  
        # # YouTube : Next Video  
        # pyautogui.keyDown('shift')  
        # pyautogui.press('n')  
        # pyautogui.keyUp('shift')  
    print("Snap")  
    time.sleep(0.1)
```





Demo

Demo

Q&A