# Snap Point

**TEAM JitterBug** 

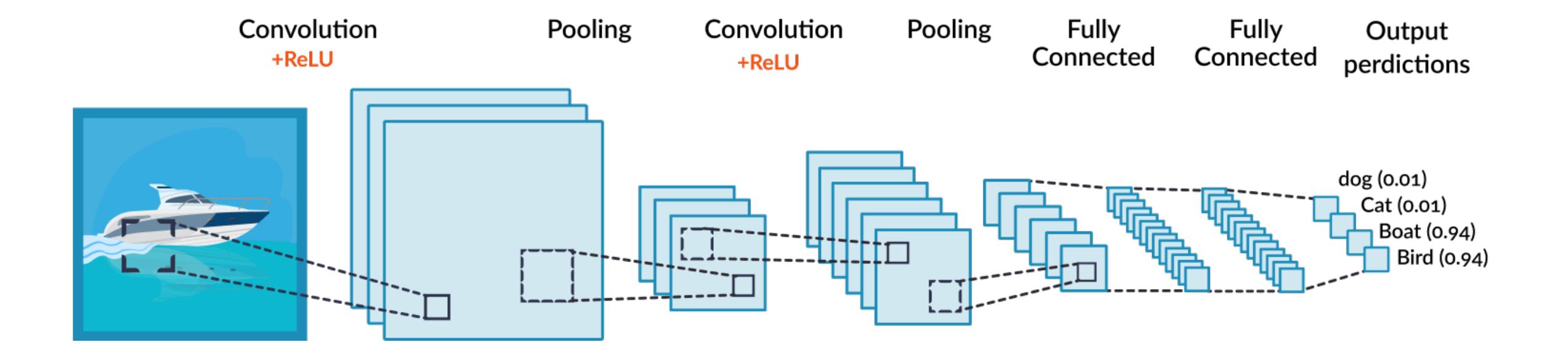
18기 오중균 10기 기차여

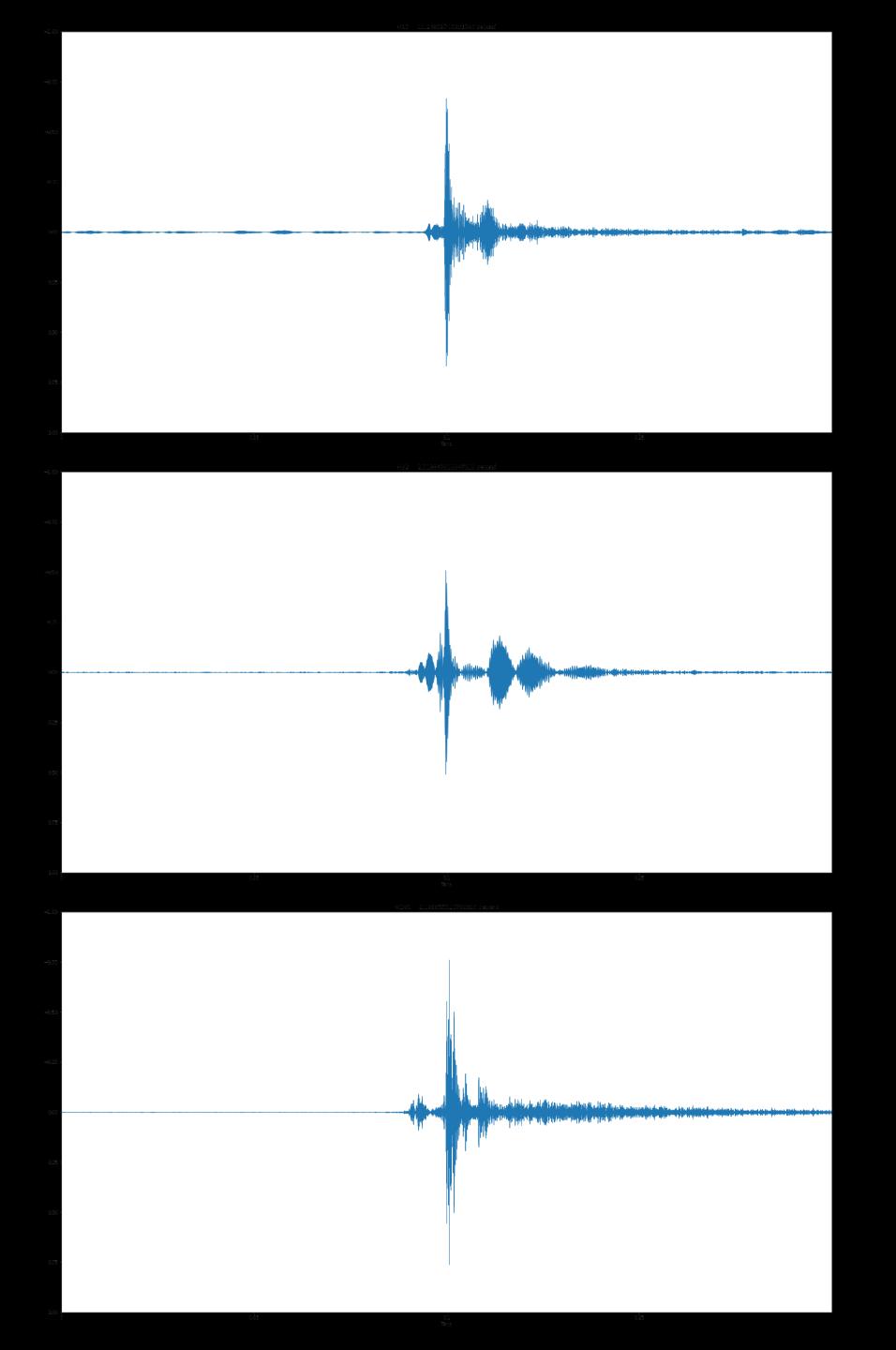
18기 김창영

```
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'))
```

CNN

model.compile (optimizer= 'adam', loss='categorical\_crossentropy', metrics = ['accuracy'])





## ver 1.0.h5

- 0 = noise
- 1 = snap & clap

### ver 1.1.65

```
0 = noise
```

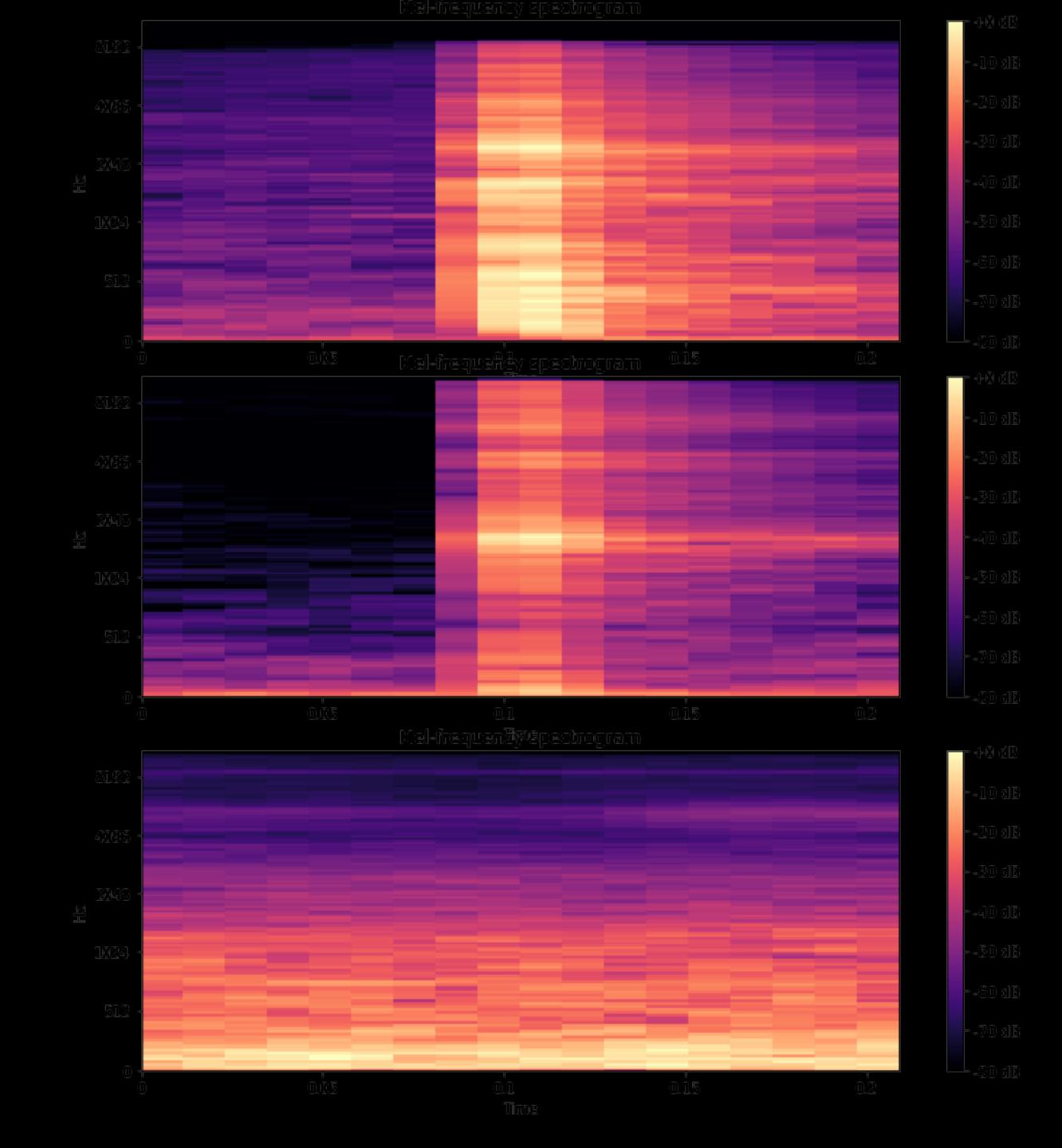
$$1 = snap$$

$$2 = clap$$

## Clap

### Snap

### noise





- 0 = noise
- 1 = snap
- 2 = clap



#### 폐기물 6 items



#### 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

#