

# Madcamp2020

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#### Problem Definition





서울시, '마스크 미착용 승객' 특별대책...지하철 '앱 신고제' 도입

해운대에서 마스크 미착용 50대 입건...마스크 의무화 이후 첫 사례



○sbs 시설 · 인력 부족한데...진단검사 대상 또 늘린다?

기사입력 2020.02.19. 오후 8:49 최종수정 2020.02.19. 오후 10:09 기사원문 스크랩 💫 본문듣기 • 설정

#### 내일 '2만 명' 시험...''마스크 안 쓰면 입실 불가''









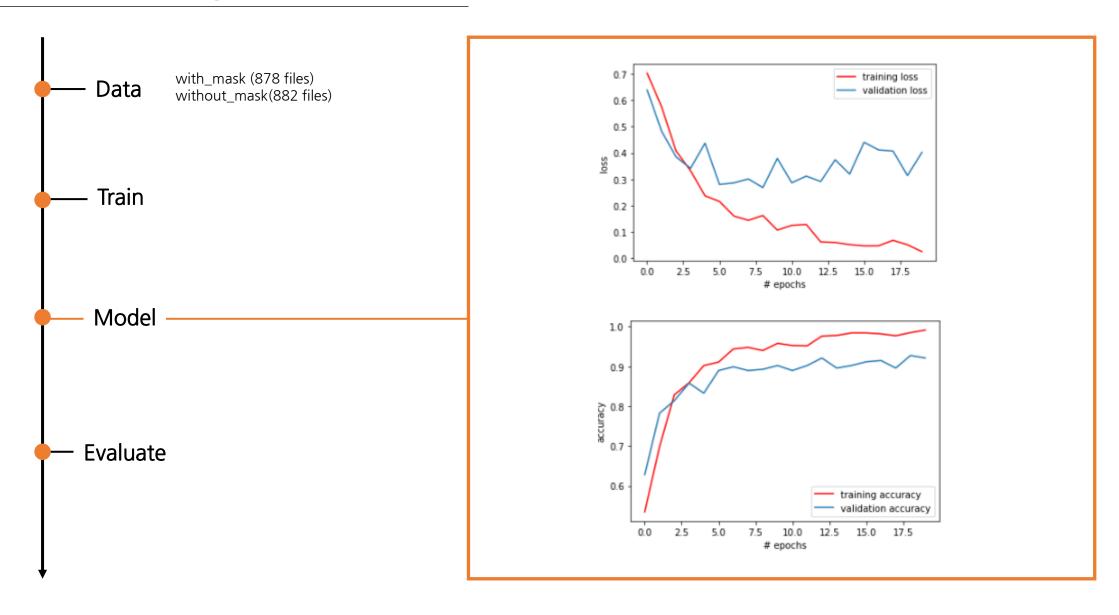
# Mask Detector Application!

### Model using Keras

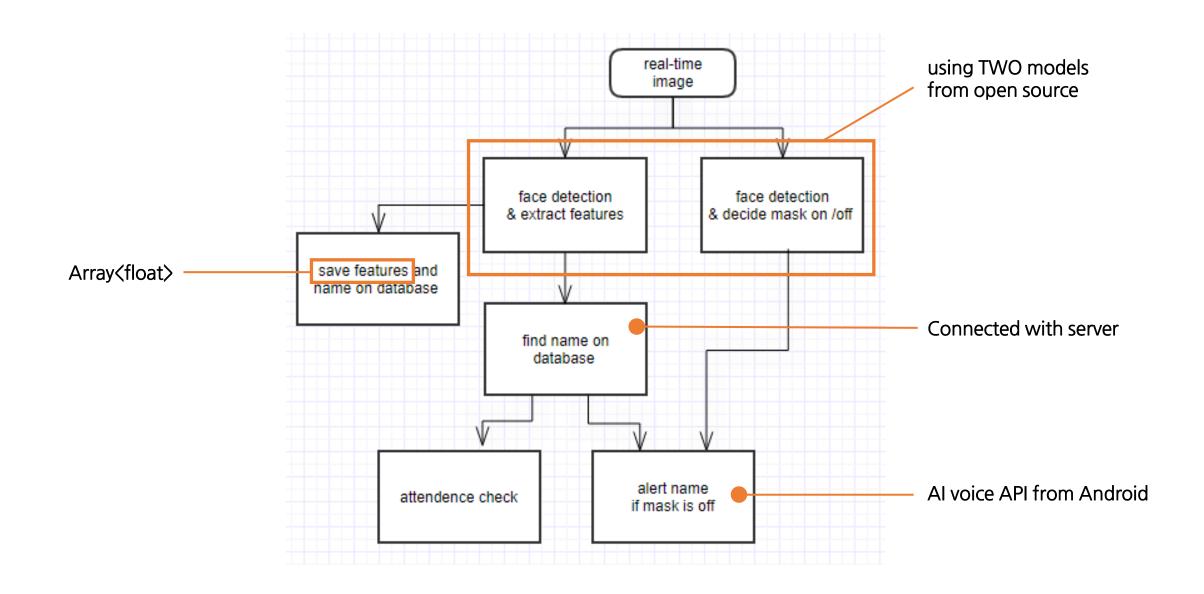
```
with mask (878 files)
  Data
           without mask(882 files)
 Train
 Model
Evaluate
```

```
40/40 [====
  :=======] - 61s 2s/step - loss: 0.1600 - accuracy: 0.9440 - val_loss: 0.2862 - val_accuracy: 0.8991
Epoch 19/20
  :=======] - 63s 2s/step - loss: 0.0507 - accuracy: 0.9850 - val_loss: 0.3140 - val_accuracy: 0.9274
Fpoch 20/20
```

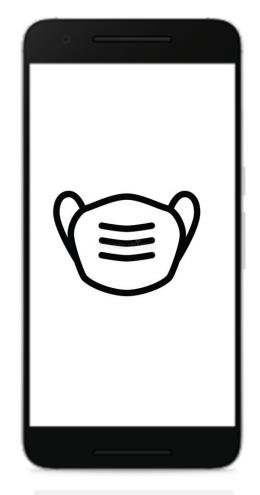
## Model using Keras



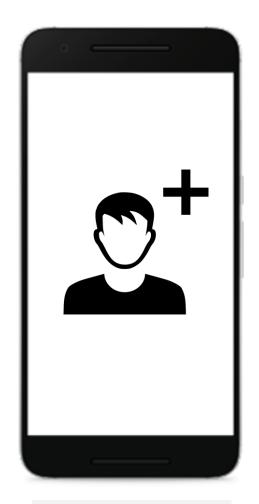
#### Overall Structure



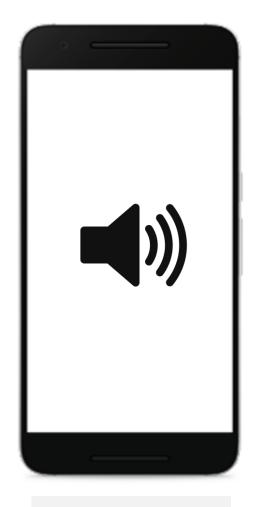
### Results



Detect Mask on/off and face recognition



Add new faces



Alert with sound

# Thank you