PLASS-NIA 인공지능학습데이터구축사업 (2021)

5팀(김도현, 전은성)

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1. 학습데이터



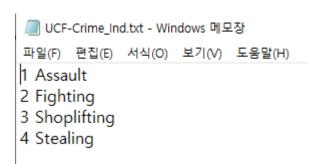


- Assault동영상에서 추출한 이미지
- 이미지를 이용해 학습을 하여 평가

1. 학습데이터

```
UCF-Crime_Assault/Assault001_x264 0
UCF-Crime_Assault/Assault003_x264 0
UCF-Crime_Assault/Assault003_x264 0
UCF-Crime_Assault/Assault004_x264 0
UCF-Crime_Assault/Assault005_x264 0
UCF-Crime_Assault/Assault006_x264 0
UCF-Crime_Assault/Assault007_x264 0
UCF-Crime_Assault/Assault009_x264 0
UCF-Crime_Assault/Assault010_x264 0
UCF-Crime_Assault/Assault011_x264 0
UCF-Crime_Assault/Assault012_x264 0
UCF-Crime_Assault/Assault013_x264 0
UCF-Crime_Assault/Assault014_x264 0
UCF-Crime_Assault/Assault017_x264 0
UCF-Crime_Assault/Assault017_x264 0
UCF-Crime_Assault/Assault018_x264 0
```

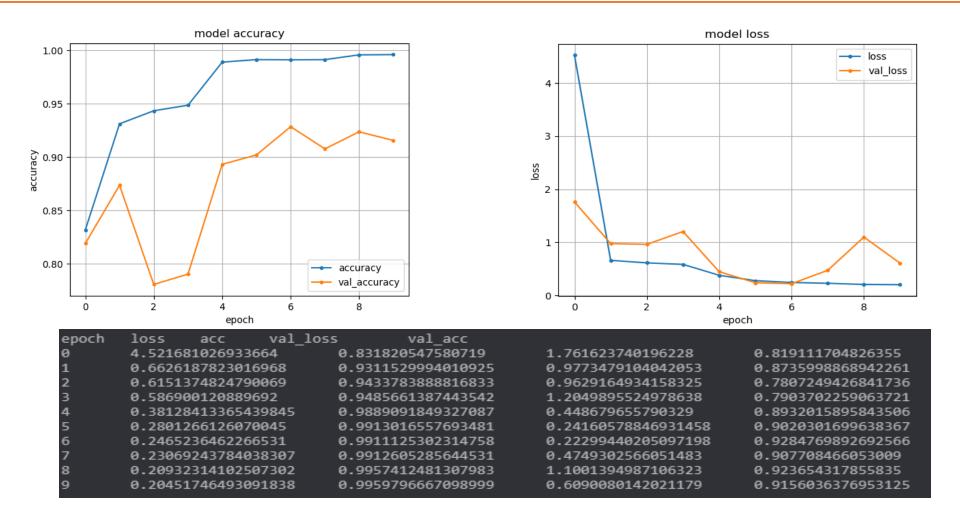
trainlist.txt



testlist.txt

```
UCF-Crime_Assault/Assault008_x264 0
UCF-Crime_Assault/Assault015_x264 0
UCF-Crime_Assault/Assault016_x264 0
UCF-Crime_Assault/Assault026_x264 0
UCF-Crime_Assault/Assault032_x264 0
UCF-Crime_Assault/Assault046_x264 0
UCF-Crime_Assault/Assault049_x264 0
UCF-Crime_Fighting/Fighting007_x264 1
UCF-Crime_Fighting/Fighting008_x264 1
UCF-Crime_Fighting/Fighting014_x264 1
UCF-Crime_Fighting/Fighting021_x264 1
UCF-Crime_Fighting/Fighting029_x264 1
UCF-Crime_Fighting/Fighting030_x264 1
UCF-Crime_Fighting/Fighting030_x264 1
UCF-Crime_Fighting/Fighting030_x264 1
UCF-Crime_Fighting/Fighting033_x264 1
```

2. 모델 학습



•모델의 정확도와 손실

3. 모델 테스트



Fighting prob: 0.9786 Fighting prob: 0.9790 Fighting prob: 0.9794 Fighting prob: 0.9802 Fighting prob: 0.9806 Fighting prob: 0.9812 Fighting prob: 0.9820 Fighting prob: 0.9827 Fighting prob: 0.9832 Fighting prob: 0.9834 Fighting prob: 0.9835 Fighting prob: 0.9837 Fighting prob: 0.9837 Fighting prob: 0.9833 Fighting prob: 0.9828 Fighting prob: 0.9823 Fighting prob: 0.9818 Fighting prob: 0.9813

- 훈련된 모델에서의 평가 결과
- Fighting 동영상에서의 UCF-Crime 종목 판별과 프레임별 정확도

3. 모델 테스트



Stealing prob: 0.6631 Stealing prob: 0.6881 Stealing prob: 0.7222 Stealing prob: 0.7520 Stealing prob: 0.7858 Stealing prob: 0.8169 Stealing prob: 0.8374 Stealing prob: 0.8488 Stealing prob: 0.8620 Stealing prob: 0.8779 Stealing prob: 0.8917 Stealing prob: 0.9025 Stealing prob: 0.9134 Stealing prob: 0.9213 Stealing prob: 0.9267 Stealing prob: 0.9318 Stealing prob: 0.9386 Stealing prob: 0.9426 Stealing prob: 0.9455 Stealing prob: 0.9436 Stealing prob: 0.9383 Stealing prob: 0.9280 Stealing prob: 0.9171 Stealing prob: 0.9006

4. 향후 계획

- UCF-Crime 개선 사항 수정
- AIHUB 학습데이터를 사용하여 테스트
- 테스트 결과 확인
- 개선 사항 수정

감사합니다