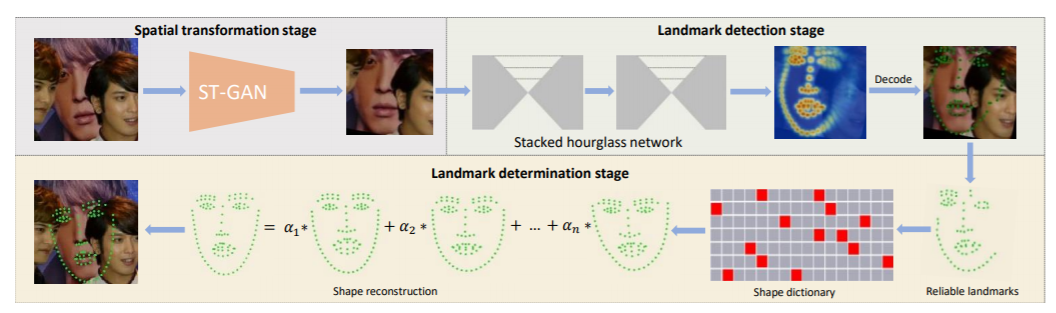
**초반(1~2주차)**

소프트웨어융합 캡스톤디자인을 본격적으로 진행하기에 앞서, 연구 주제를 선정하기 위한 논문 서칭 작업과 담당 교수님 선정을 진행하였다. 진행하고자 하는 연구는 마스크를 쓴 얼굴을 인식하는 데 있어서 정확도를 높이는 연구이다. 따라서 face occlusion이 있음에도 불구하고 얼굴을 인식해 낸 논문들을 중심으로 찾아보았다. 그 중 가장 최근에 이루어진 연구 논문으로, ‘Multistage Model for Robust Face Alignment Using Deep Neural Networks(2020)’라는 논문을 찾게 되었다.

처음에 찾게 된 2013년도 논문에서는 RCPR이라는 방법으로 face occlusion 문제를 해결하고 있었다. 이 방법에 대해 학습하고 단점을 보완할 수 있는 방법을 제안하는 연구를 진행하려고 하였다. 하지만 그 이후의 논문에서 RCPR의 한계점을 극복하고 성능면에서 더 발전된 기술들이 나와있었다. 따라서 가장 최근 기술들을 위주로 찾아보게 되었고 그 중 찾게 된 논문이 바로 ‘Multistage Model for Robust Face Alignment Using Deep Neural Networks’이다. 하나의 신경망 구조를 사용해 얼굴을 인식하는 것이 아니라 각 단계마다 서로 다른 모델을 섞어 얼굴을 인식하고 있다. 내용을 전반적으로 설명하면 다음과 같다.



첫 번째 단계는 ST-GAN을 통해 occlusion이 있는 얼굴의 alignment, scaling, rotation을 진행하여 canonical face(정면 사진)를 얻는 과정이 이루어진다. 두 번째 단계는 첫 번째 단계에서 얻은 canonical face를 input으로 하여 Stacked hourglass network를 거치는 과정이다. face landmark가 될 수 있는 확률이 높은 지점들을 찾아낸다. 세 번째 단계는 찾아낸 face landmark 점들과 미리 구축해 두었던 face dictionary에서 가장 높은 유사도를 갖는 face landmark 구조를 찾아낸다.

위의 논문을 바탕으로 얼굴인식 과정을 진행한다면 ST-GAN, Stacked hourglass network 등과 같이 다양한 신경망 구조에 대해 학습하는 데 도움이 될 것이다. 또한 Multistage Model을 구축하는 것은 서칭 당시 가장 최근에 진행된 연구이다. 이 방법을 숙지하여 성능이 더 우수한 모델을 구현한다면 얼굴 인식 분야 발전에 도움이 될 것이다. 따라서 이 논문을 바탕으로 캡스톤 디자인을 진행하기로 결정하였다.

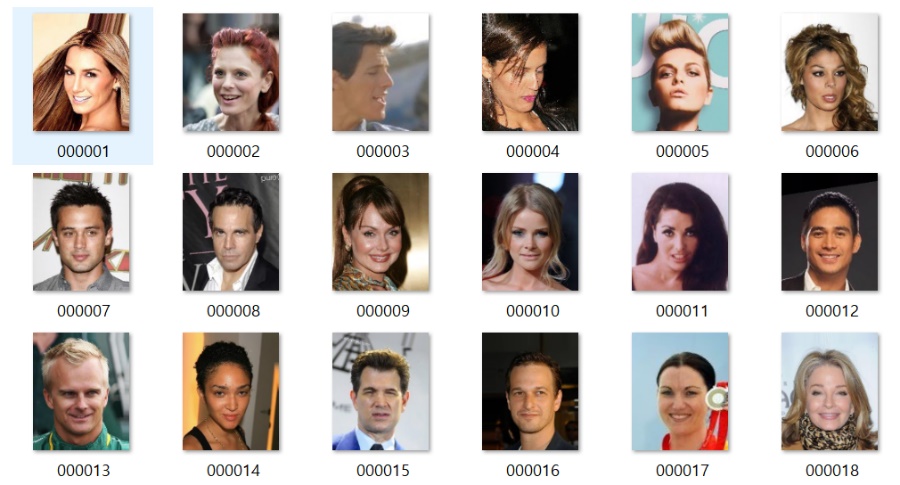
본 연구는 이미지 처리, 영상 인식과 관련이 높다고 판단하여 컴퓨터 비전 분야 교수님이신 이대호 교수님께 담당 교수님을 맡아 주실 수 있는지 연락을 드렸다. 이후 연구 계획서 등의 서류를 작성하여 세부적인 정량적, 정성적 목표, 진행방법 등을 정의하고 연구를 본격적으로 진행할 준비를 마쳤다.

**3주차**

계획 : 수행계획서 제출, face dataset 구축, face recognition 관련 알고리즘 서칭

진행 : 수행계획서 제출, face dataset 구축, face recognition 관련 알고리즘 서칭, ST-GAN 오픈소스 서칭 후 돌려보기

수행계획서는 1~2주차 때 작성해 둔 계획서에서 약간의 수정을 거쳐 제출하였다. Multistage model의 3단계의 face dictionary에서 가장 유사한 face landmark 구조를 찾을 때, 어떤 알고리즘으로 찾을 것인가에 대해 생각해보라는 이대호 교수님의 말씀이 있어 관련 알고리즘 서칭을 진행하였다. 기존의 논문에서는 K-means 알고리즘을 사용하고 있었다. Face dictionary 안의 모든 구조들과 비교하는 것은 너무 시간이 오래 걸리므로 k-means 알고리즘을 사용한다고 한다.

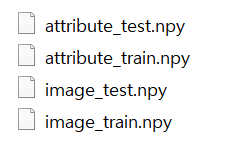
‘A Comparison of Face Verification with Facial Landmarks and Deep Featrues(2018)’라는 논문에서는 deep feature를 통해 얼굴 인식하는 방법을 언급하고 있었다. 이대호 교수님께서는 이 방법이 가능하려면 한 사람의 사진이 여러 장 필요하다는 단점이 있다고 말씀해 주셨다. Deep feature를 사용하려면 DNN을 돌려야 하므로 DNN을 학습시키기 위한 train data가 많아야 한다. 이러한 방법 보다는 기존의 논문에 언급된 방식처럼 정면 얼굴을 미리 확보해두고 landmark point를 구한 후 이렇게 구축된 landmark point 구조 중 어떤 사람과 가장 유사한 구조를 갖는지 비교하는 방식이 나을 것이라고 말씀해 주셨다. 따라서 regression 방식이나 k-means 알고리즘을 사용하거나 연구 초반에 계획했던 미간 거리, 눈 사이의 거리 등의 비율을 통해 비교하는 방식을 최우선적으로 고려하고 시간적 여유가 될 경우 deep feature를 사용하는 방식을 생각해보기로 결정하였다.

Face data를 얻은 곳은 CelebA라는 곳으로, 총 202,599장의 얼굴 사진이 담긴 dataset을 구축하였다. 용량은 10.9GB이다. 로컬 컴퓨터에 dataset만 저장하면 상관없지만 이후 전처리를 거쳐 생성되는 npy 파일들이 dataset을 기반으로 만들어지므로 npy 파일들의 용량도 10GB 정도였다. 로컬 컴퓨터의 저장 공간이 부족하여 SSD로 이동시켰다.

Multistage Model을 구축하기 위해서 첫 번째 단계인 ST-GAN을 구현하여야 한다. 따라서 ST-GAN을 구현한 오픈소스가 있는지 찾아보았다. github에서 제공되는 오픈소스 코드이고 주소는 아래와 같다.

<https://github.com/chenhsuanlin/spatial-transformer-GAN>

전처리 과정을 거쳐 전체 dataset을 trainset, testset으로 나누어 행렬 형태로 저장하였다.

전처리 과정이 끝나면 좌측과 같이 .npy 형태로 저장되어 ST-GAN을 학습시킬 수 있게 된다.

ssd 내부의 경로로 dataset의 위치를 지정해 준 뒤 학습시키는데 tensorflow로 GPU를 사용하는 코드였다. 하지만 GPU가 없을 경우 GPU 관련 설정을 무시하고 돌아가는데, 문제는 메모리였다.

![스크린샷이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gO2YhOynhAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNjgAAJKSAAIAAAADNjgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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![스크린샷이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gO2YhOynhAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzAAAJKSAAIAAAADMzAAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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qdyfNtYkZ24NAGp4q1O0Pwp8HsNDsFFwt+sah58WxEwG5P3uSSefn3DI6Y4rmvDVtZ3FpdrDoF54g1c48m0SOQwQxAjdK3lMJGbOFA+VRnJJOBV3UNR0zWPhx4f09dShtL3RftnmwXEcuZ/McOvllEZeenzFefbmmaLqunT+AtR8N3N6mkXM15Hdi8eN2jukUbfIk8tSwCk714YZz908kAf428Mx6RpOhasmnTaRLqsUon0yUP/AKPJEwUspf5gr5DBWyRnqQRjj67TxXqGjzeBvDmkaVqqX0+jtOk5EEkYk84rJuTcvKqdyfNtYkZ24NcXQB6F8GbuFPiNpdq2nW0kztMy3jNJ5sY8h/lADhMcHqpPJ56Y5KO/0yfX7G4vNJhttOjlj+1Wtk8p82MNl8GSQncV44YDp061o/DvXLLw34/0zVdUZ1tIWdZGRdxUPGybsdSAWycc4BwCeKxNQtIbK4WO21G21BSu4y2yyBQcn5f3iKc8Z6Y560Adn/wg0f8AwvL/AIRbZD9j+3b/ACvMfb9m2+ds3fe3eX8v1796JLPw1F4AvvElton2gt4iktbOO4uJFVLcxb1Rwr5bA9GBzjLEAg6t/wCI/wCzPhRZSX9r5HiW/sf7Kt5Wk+d9M3bhJ5eNqqf9WCQGb7wY1nafbW138CWivL5LEHxJlJpY2ePd9mHDbAWAxnkK3OBgAlgAVL/wrYakvg6+0xf7MTxLKbaS2UtKlvIkqxM6FjuKtu3bSSRyNx7dHb+AodS8Y3fhs+D7zTtO/e29trjC4Z1eMHbM5Y+U6uUPyhV++MEYBPOX/iqw01fB1jpjf2mnhqU3MlyoaJLiR5VlZEDDcFXbt3EAnk7R3Zq8fhW/8Rarrtzrr3FpdtJdxafbwSRXTSSHcImZkMaBWY5YM+QvAJPABxdavhezg1Hxfo9leR+Zb3N9BDKmSNyNIoIyORwe1ZVXtE1H+x9f0/U/K877FdR3Hl7tu/YwbGcHGcYzigDsPDvhrSb745TeH7q08zS1vryEW/mOMJGshQbgd3G0d+1Zfw10aw8QfELTNM1eD7RZz+b5ke9l3bYnYcqQeoB610uhav4Y074tf8JbN4iT7FcTz3Ig+xzedC0qOSsg27QFLlcoz5IXjBJXmvhrrNh4f+IWmanq8/2ezg83zJNjNt3ROo4UE9SB0oAyvC9nBqPi/R7K8j8y3ub6CGVMkbkaRQRkcjg9q7Cfw/oWqap4x0aw0z+zn0KK5u7a7W4eV3WByGidWO0q275SACu0ZL8k8f4XvINO8X6Pe3j+Xb219BNK+0naiyKScDk8DtXU6d4l0mDxf46vZbvbb6tY6hDZP5bnzXlkBQYxlcj1xjvigCT4M3cKfEbS7VtOtpJnaZlvGaTzYx5D/KAHCY4PVSeTz0xR8CahdzfE/Rp/DmjWEFyrMgtVmlWJlKN5jFnd2BCFumfujCk8Gj8O9csvDfj/AEzVdUZ1tIWdZGRdxUPGybsdSAWycc4BwCeKk8L6tZ+CPHmm6r9qh1e3t9xkNkJFwHVkIHmopLAHdjGDwMjnAB0Xgi30Oz8eTy+Db+81LVIIrk6TbX1ssEM77WADSBiT+7LEArHkgZKdK8zru/C9xoXgnxT/AG+niC21ZbFZTa2tvbzxy3LMpRQxdAsYw24nc2MYAauEoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPufwH/wAk38Mf9gez/wDRCUUeA/8Akm/hj/sD2f8A6ISigD4k1ZXTWr1ZpPNkW4kDPtxuO45OO2ap1f1z/kYdR/6+pf8A0M1QoAKKKKACiiigAqSCeW2uI57aV4ZomDxyRsVZGByCCOQQe9R0UAT3l7dajdvdahczXVxJjfNPIXdsDAyx5PAA/CoKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigC3HqmoRaZLp0V9cpYzNvktVmYRO3HJTOCflXnHYelVKKKACiiigAooooAKKKKACiiigAooooAKKKKACp/tt1/Z/2H7TN9j83zvs/mHy/Mxjft6bscZ64qCigAooooAKKKKAJ7a9urLzvsdzNb+fE0MvlSFfMjbqjY6qccg8VBRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFSQTy21xHPbSvDNEweOSNirIwOQQRyCD3qOigCSeeW5uJJ7mV5ppWLySSMWZ2JySSeSSe9R0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUkE8ttcRz20rwzRMHjkjYqyMDkEEcgg96jooAnvL261G7e61C5muriTG+aeQu7YGBljyeAB+FH226/s/7D9pm+x+b532fzD5fmYxv29N2OM9cVBRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfc/gP/AJJv4Y/7A9n/AOiEoo8B/wDJN/DH/YHs/wD0QlFAHxPrn/Iw6j/19S/+hmqFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfc/gP/AJJv4Y/7A9n/AOiEooooA//Z)

학습시키려고 하니 ‘Unable to allocate 16.5GiB for an array with shape (152249, 218, 178, 3) and data type uint8’이라는 에러가 떴다. 확인해보니 ST-GAN을 학습시키는 프로세스가 98%의 메모리를 점유하고 있는 것을 알 수 있었다. 로컬 컴퓨터의 메모리가 8기가인데 16.5GiB 크기의 npy 내부의 행렬을 처리해야해서 에러가 생긴 것 같았다.

**4주차**

계획 : face dataset 구축, ST-GAN 구축(1)

진행 : face dataset 구축(3주차에 이미 완료), ST-GAN 구축 진행, ST-GAN 학습시키기 위한 gpu 대여, docker 환경 설정

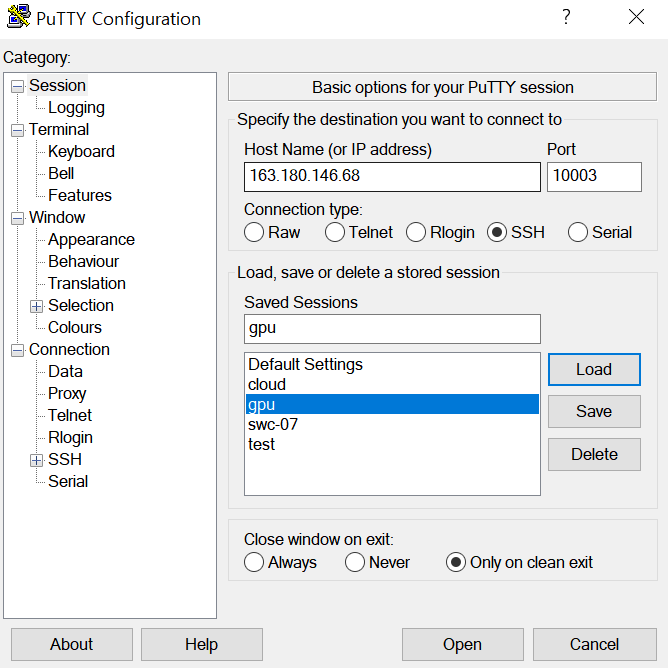
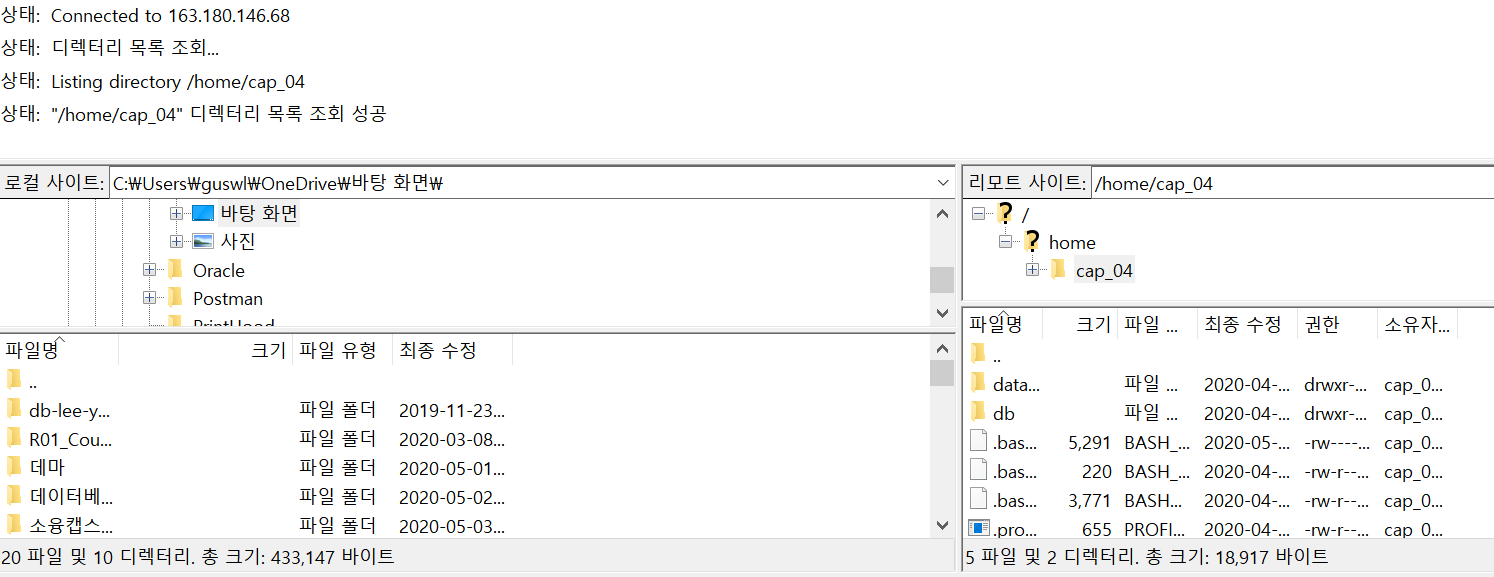
저번 주차에서 메모리 부족 문제가 생겨 이를 해결하는 작업을 진행하였다. 이대호 교수님께서 npy 내부의 행렬의 크기가 너무 커서 그렇기 때문에 이를 나누어 작업하라고 말씀해 주셨다. 전처리 코드를 살펴보니 train 이미지들을 전부 다 하나의 npy 파일 내부에 넣어 작업하고 있었고 이것이 부하를 만든 것 같았다.

하지만 tensorflow-gpu 라이브러리를 설치하는 데 있어서 다시 한 번 저장 공간 부족 에러가 생겼고, 두 에러를 모두 해결하고자 학교의 GPU 서버를 대여하였다. 머신러닝에서 보통 tensorflow 라이브러리를 많이 사용하는데, docker에서 tensorflow-gpu 환경을 제공하므로 docker를 사용하는 것이 빠르다는 것을 알 수 있었다.

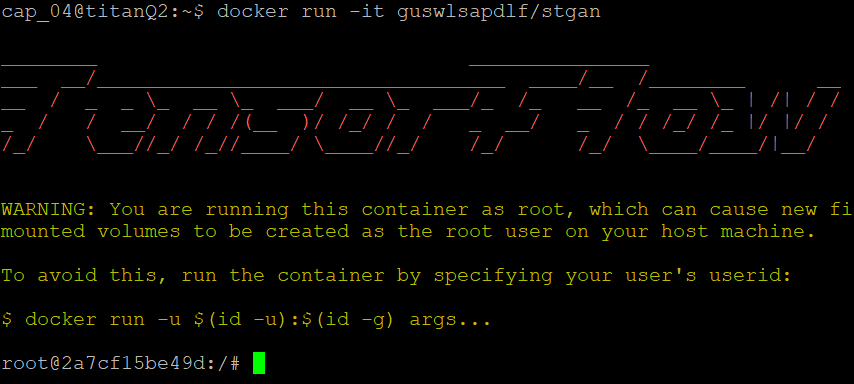
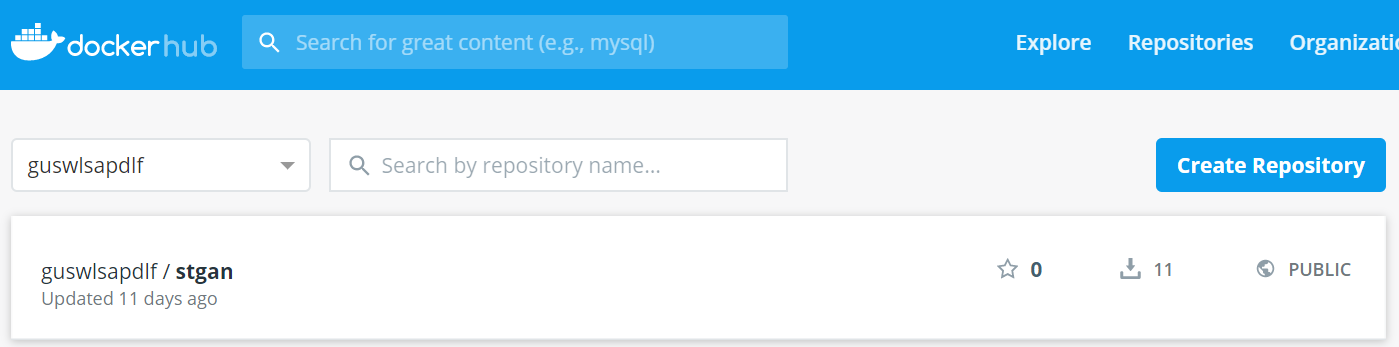
학교에서 GPU 서버를 빌리고, putty를 통해 접속한 후 서버 내의 docker container를 통해 머신러닝을 돌리는 방식으로 진행된다. 할당된 서버에 docker 환경을 구축하기 위해 docker hub에 guswlsapdlf/stgan 이미지를 생성해 push 해 두었고 이를 내려받아 컨테이너로 돌렸다. 이 과정에서 volume을 attach 해야 하는데 그러려면 할당받은 서버에 10GB의 이미지 dataset을 업로드해야 했다. 고용량 데이터를 업로드할 시 미리 연락을 해야 하므로 허가를 받는 과정을 거쳐 Filezilla로 파일을 서버에 업로드하는 데 성공하였다.

도커 이미지 실행 명령어는 아래와 같다.

**$ docker run -it -v /home/cap\_04/dataset:/home/SWCapstone/dataset guswlsapdlf/stgan**

[ putty 접속 전 화면 ] [ filezilla를 통한 파일 업로드 ]



[ docker hub에 업로드 한 이미지 ] [ image를 통한 docker 접속 ]

**5주차**

계획 : ST-GAN 구축(2)

진행 : ST-GAN 구축

ST-GAN을 학습시키는 과정을 진행한다. 학습을 시키는 데에는 총 15시간이 소요되었다.

![녹색이(가) 표시된 사진

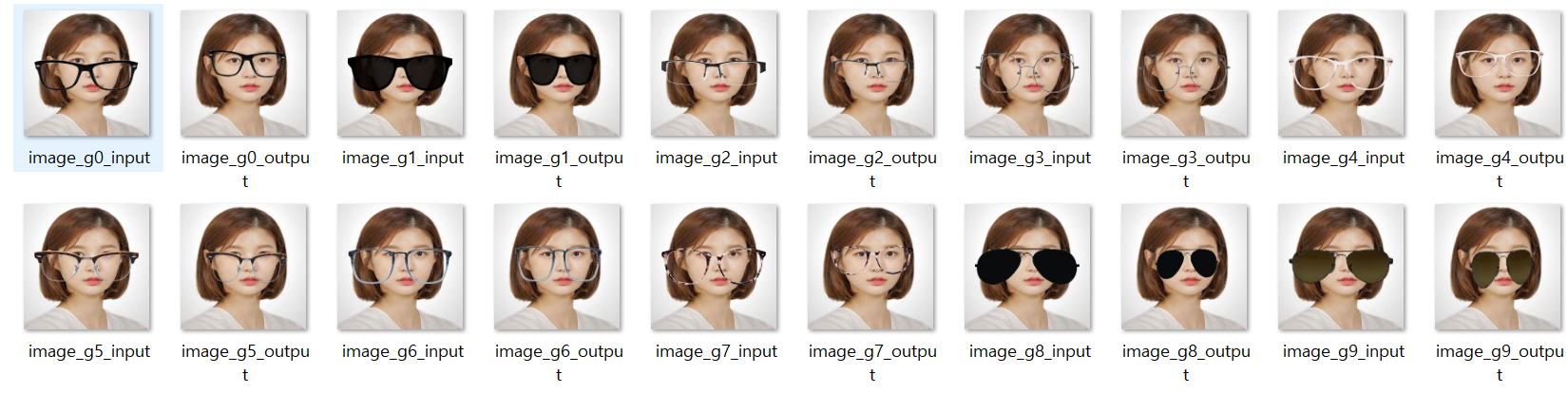
자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gO2YhOynhAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADODYAAJKSAAIAAAADODYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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학습시킨 모델을 바탕으로 ST-GAN을 돌려보았다. 이때 파일의 사이즈는 218 x 178이어야 한다. 따라서 넣어줄 파일의 크기를 변경해준다. input으로 넣어준 사진들은 다음과 같다.

사람, 의류, 실내, 서있는이(가) 표시된 사진

자동 생성된 설명의류, 남자, 전면, 테이블이(가) 표시된 사진

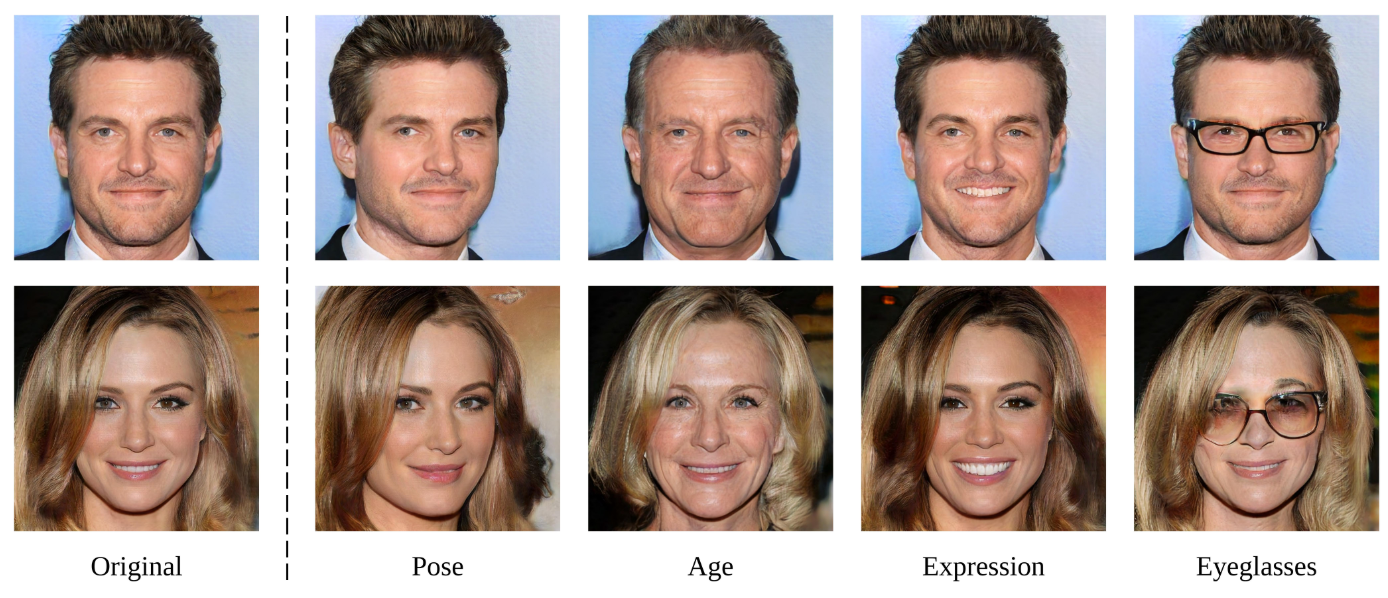
자동 생성된 설명





오픈소스를 통해 얻은 ST-GAN 코드는 glass를 합성하는 데 쓰이는 코드였다. ST-GAN을 돌릴 때 input 파일로 attribute\_train, attribute\_test, image\_train, image\_test의 npy 파일 외에도 glass라는 npy 파일이 들어가는데 이 glass.npy 파일을 보면 안경 사진들이 행렬 형태로 저장되어 있다는 것을 알 수 있다. 이미지로 각각 변환해 보면 위의 output 사진들에서 인물이 쓰고있는 안경이 나온다. 안경이 제 자리를 찾지 못한 결과도 존재하지만 그래도 제 자리를 찾아간 결과들이 좀 보이는 듯해 이 구조를 그대로 사용하기로 결정하였다.

문제는 안경 사진을 합성하는 이 네트워크를 ‘어떻게 정면 사진을 보는 네트워크로 바꿔줄 것인가?’이다. glass.npy와 같이 정면을 바라보는 사람 형태로 합성할 수 있는 행렬이 존재하는지 찾아보았지만 없었다. CelebA 측에서는 glass, age(노화가 진행된 것처럼 보이게 해주는 효과), blond(머리의 색을 바꿔주는 효과), bang(앞머리를 만들어주는 효과) 등의 npy 파일만 제공할 뿐, 정면으로 합성해주는 npy 파일을 제공하고 있지 않았다.



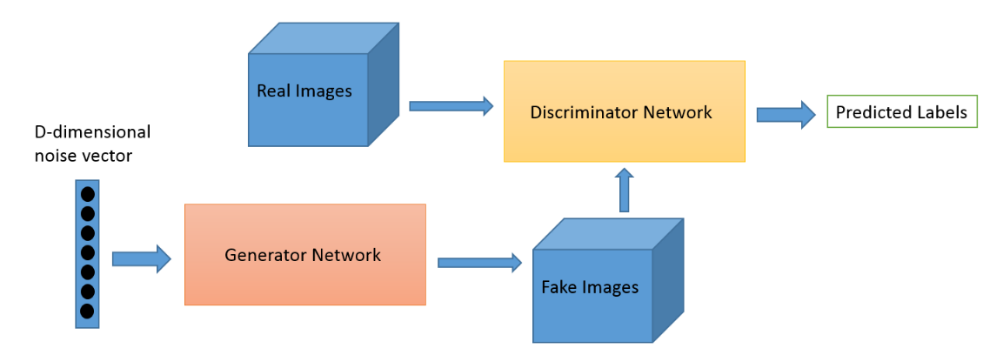
[ CelebA 측에서 제공하는 효과들 ]

<https://github.com/genforce/interfacegan>

**6주차**

계획 : ST-GAN 구축(3), hourglass network 구축(1)

진행 : ST-GAN 구축, hourglass network 오픈소스 찾기

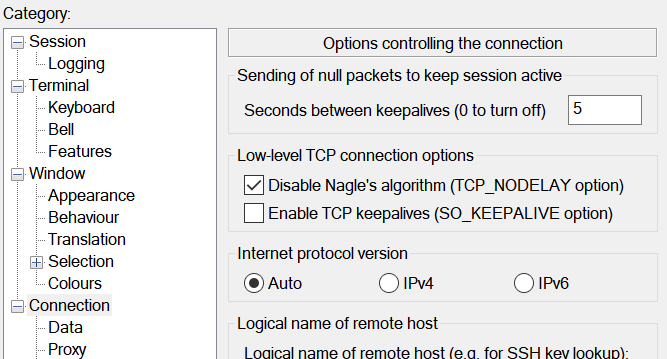
먼저 GAN 구조에 대해 학습하였다. 아래의 그림과 같이 GAN은 input으로 받은 real image와 gernerator network를 통해 특정 분포를 따르는 noise를 fake image로 만드는데 descriminator network가 real image와 fake image를 구분하지 못하게 학습시키는 것을 목적으로 한다. 그러면서 real image와 fake image가 서로 닮아가는 구조가 GAN의 작동 원리이다.

그렇다면 GAN에 real image인 사람들의 얼굴을 넣어주면 fake image로 그 사람의 얼굴과 유사한 얼굴이 나오는지 직접 코드를 돌려보았다. 참조한 오픈 소스의 링크는 아래와 같다.

<https://machinelearningmastery.com/how-to-interpolate-and-perform-vector-arithmetic-with-faces-using-a-generative-adversarial-network/>

코드를 돌려보면 아래와 같은 output을 얻을 수 있다. 총 100장을 학습시키는 데 하루 정도가 걸렸다. 하지만 학습시키는 도중 계속 putty의 연결이 끊기는 문제가 있어 시간이 더 소요되었다. Connection 관련 설정을 수정해주고 docker container를 daemon 모드로 돌리니 잘 돌아갔다.

대형, 보드이(가) 표시된 사진

자동 생성된 설명

[ GAN output ] [ putty 네트워크 문제 해결 ]

처음에는 GAN 네트워크 역시 alignment, scaling, rotation을 끝낸 형태의 얼굴을 output으로 출력해 줄 것이라 생각하였다. 하지만 돌리면서 구조와 GAN의 구조에 대해 학습을 하다 보니 output으로 나온 결과가 noise vector로부터 real image와 닮게끔 만들어진 인공적인 얼굴이라는 것을 알 수 있었다. 여전히, ST-GAN을 통해 정면을 보는 사람의 얼굴을 추출하는 문제가 남았다. GAN의 구조 외에도 ST-GAN의 구조에 대해 좀더 학습할 필요성을 느꼈다. 혹은 ST-GAN 외에도 canonical face로 만들어 주는 다른 신경망 네트워크가 있는지 확인해보는 쪽으로 계획을 수정할 필요성이 있다고도 생각했다.

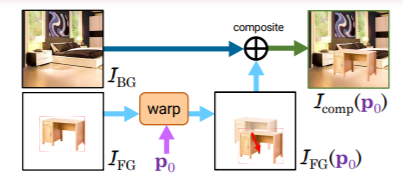
ST-GAN을 통해 canonical 형태의 face를 얻으면 stacked hourglass network를 통과시켜 face landmark가 될 가능성이 가장 높은 점들을 추출해내야 한다. 이 과정을 수행하기 위해 stacked hourglass network를 구현해 둔 오픈소스를 찾아보았다. 그 결과는 아래와 같다.

<https://github.com/deepinx/deep-face-alignment>

**7주차**

계획 : hourglass network 구축(2)

진행 : ST-GAN 구축, hourglass network 오픈소스 찾기, hourglass network train을 위한 dataset 구축



상단 좌측의 구조를 보면 background와 탁자를 합성하는 데 있어서 p가 영향을 주고 있다는 것을 알 수 있다. 즉, p를 알아내면 p만큼만 탁자의 형태를 바꿔주면 실제의 이미지처럼 합성될 수 있는 것이다. ST-GAN에서는 이러한 p를 예측해주는 작업을 진행한다. p의 값이 보정되어 가면서 ST-GAN의 학습이 이루어지는 것이다. 앞의 안경 쓴 이미지를 예시로 들자면 real image는 실제로 안경을 쓴 사람들의 얼굴이고, fake image는 안경을 쓰지 않은 사람의 얼굴 위에 안경이 얼굴의 위치와 맞지 않게 composite 된 형태인 것이다. 안경은 real image와의 비교를 통해 p의 값을 보정해가며 알맞은 위치를 찾아가는 형태이다.

안경의 위치를 찾는 부분은 spatial transform과 관련이 있으므로 ST-GAN을 썼지만 ST-GAN을통해 진행하고자 하는 것이 canonical face를 얻는 것이라면 다른 GAN 구조를 갖는 네트워크로 진행을 해 보면 어떻겠냐는 이대호 교수님의 말씀에 따라 다른 GAN 네트워크를 찾아보기로 결정하였다. ST-GAN으로 canonical face를 얻으려면 CelebA의 측면 사진과 정면 사진을 모두 나누어 주어야 한다. 이렇게 해서 ST-GAN을 구축하기에는 시간적 여유가 없으므로 다른 GAN 네트워크를 사용하는 것이 맞을 것 같다는 판단 때문이다.

현재 구축하고자 하는 Multistage Model은 ST-GAN으로 canonical face를 얻어냈지만 본 연구에서는 다른 GAN 구조를 사용함으로써 성능 면에서 어떤 차이가 있는지 살펴보고자 한다.

다음은 hourglass network이다. 저번에 찾은 오픈소스는 face alignment 부분을 포함하고 있다. input으로 들어간 이미지가 이미 canonical 상태이므로 face alignment를 빼고 진행하는 것이 옳다고 판단하였고, 저번의 오픈소스보다 더 적합하다고 판단되는 오픈소스를 찾았다.

<https://github.com/viliusmat/SHN-based-2D-face-alignment>

그 이후로 진행한 과정은 다음과 같다. hourglass network를 학습시키는 데 있어서 동일하게 CelebA dataset을 사용하며, 네트워크를 돌리기에 알맞게 128 x 128 크기로 변환한 뒤 trainset, testset 폴더에 각각 저장하는 전처리 단계를 진행하였다.

**8주차**

계획 : hourglass network 구축(3), 중간보고서 제출

진행 : hourglass network 오픈소스 찾기, ST-GAN을 대체할 GAN 구조 오픈소스 서칭(<https://github.com/scaleway/frontalization>) 및 실행

7주차에 이대호 교수님께서 말씀해 주신대로ST-GAN을 대체할 다른 GAN 구조가 있는지 다시 한 번 오픈소스 서칭을 진행하였다. 찾은 오픈소스는 frontalization을 가능하게 해주는 오픈소스이다. Git 주소는 아래와 같다.

<https://github.com/scaleway/frontalization>

옆모습을 input 사진으로 입력하면 output 사진으로 frontalization이 적용된 사진이 도출된다. Face frontalization GAN이라는 구조로, 한 장의 정면 사진과 600장 가량의 옆모습 사진(빛의 방향, 얼굴이 돌아간 각도 등을 각각 다르게 하여 찍힌 옆모습)을 바탕으로 학습이 이루어진다. 직접 database를 구축하는 데 어려움이 있어 pretrained 된 모델을 사용해 test를 진행하였다. Input 이미지의 resolution은 128이며, 얼굴이 128 by 128 정사각형 내부의 80%를 차지하고 있어야 한다. 정면을 보고 있지 않고 있는 사진 한 장과 정면 사진 한 장으로 frontalization이 진행된 output 이미지를 얻게 된다. 시행한 결과는 아래와 같았다.

가장, 사진, 그룹, 아이이(가) 표시된 사진

자동 생성된 설명사진, 가장, 그룹, 의류이(가) 표시된 사진

자동 생성된 설명

윗줄과 아랫줄이 input으로 넣은 사진들이고 output은 가운데 줄의 사진들에 해당된다. Input 이미지와는 관계없이 pretrained 된 모델을 사용하다 보니 training image에 의해 많은 영향을 받았다. 남성의 결과는 좀더 비슷하게 나올 수 있을 것 같아 한 차례 더 test를 진행한 결과는 아래와 같았다.

사진, 가장, 의류, 서있는이(가) 표시된 사진

자동 생성된 설명

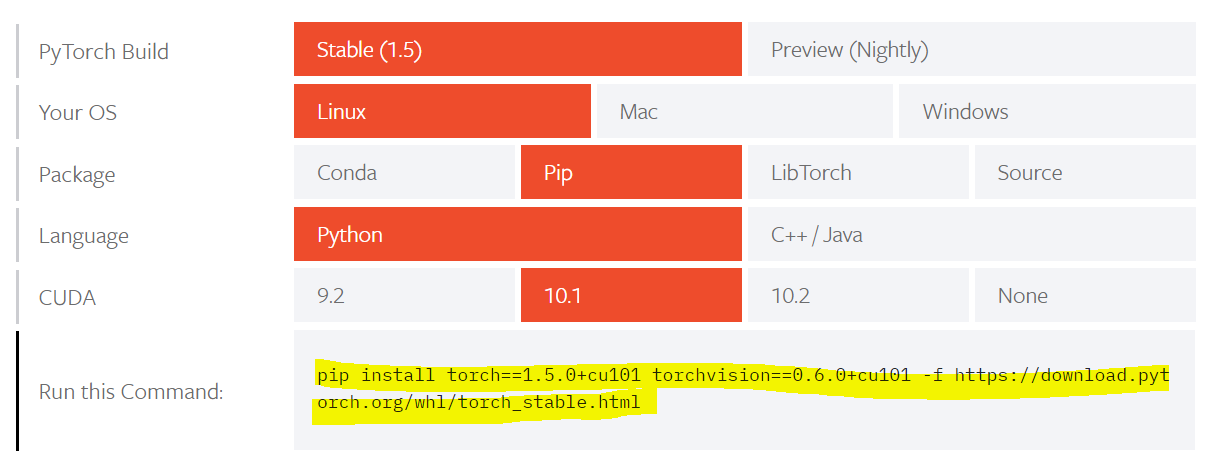
성별과 관계없이 test 결과는 training dataset에 지나치게 편중되어 있었다. 피부색, 빛의 방향 모두 input data와는 많은 차이가 있었다.

중요한 것은 마스크를 착용한 사람의 얼굴을 인식하는 것이므로 GAN 구조에 너무 집착하지 않는 것이 좋겠다는 이대호 교수님의 조언에 따라 SHN을 먼저 사용해 보기로 결정했다. Face landmark 점을 찾은 뒤 해당 point들을 통해 face alignment를 진행한 뒤 GAN이 쓰일 만한 곳을 찾아보는 것도 좋겠다는 생각을 하게 되었다.

해당 프로그램은 gpu 서버의 docker 환경에서 ubuntu 이미지를 pull한 뒤 git clone을 진행해 python을 돌려 진행하였다. 이때 python 파일에 명시된 library들을 전부 다운로드해주어야 한다. 다운로드에 사용한 명령어는 다음과 같다. ‘No module named (라이브러리 명칭)’이라는 에러가 발생했을 때 ‘pip install (라이브러리 명칭)’으로 설치가 진행되지 않는 것들이 있다. Cv2의 경우 pip install opencv-python으로 진행해야 install이 가능하며 nvidia-dali의 Pipeline을 사용하려면 아래의 명령어를 통한 설치가 진행되어야 한다.

$ pip install --extra-index-url https://developer.download.nvidia.com/compute/redist/cuda/9.0 nvidia-dali-tf-plugin

또한 Pytorch를 설치할 경우 nvidia/cuda와 버전 충돌이 발생하여 문제가 생길 수 있다. 따라서 pytorch의 홈페이지-Get Started를 통해 자신의 os와 nvidia 버전 등에 맞추어 명령어를 확인하고 설치를 진행해야 한다. (10.1



$nvidia-smi 명령어를 사용하면 gpu 번호와 해당 번호의 gpu 사용 현황, cuda의 버전 정보를 확인할 수 있다. 프로그램을 돌리는 것도 중요하지만 환경을 구축하는 데 상당히 많은 시간이 들어간다는 사실을 체감하였다.

**9주차**

계획 : regression을 통한 face recognition, 얼굴 인식 성능 측정(1)

진행 : Stacked hourglass network를 이용하여 landmark 점 찾기(1)

7주차에 찾은 stacked hourglass network를 통해 face landmark point들을 인식하는 python 오픈소스 코드를 실행시켜보았다. (<https://github.com/viliusmat/SHN-based-2D-face-alignment>)

코드를 돌리는 과정에서 library 문제와 shared memory 문제 등 한 줄마다 에러가 발생하였다.

![나이프이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gO2YhOynhAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTMAAJKSAAIAAAADNTMAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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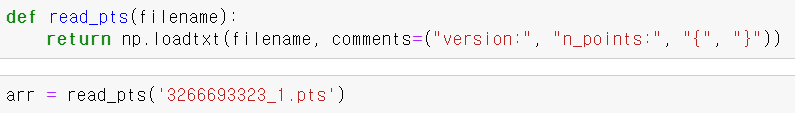
Docker를 사용하는 과정에서 shared memory의 크기가 insufficient하다는 에러이다. insufficient하다는 에러이므로 shared memory의 크기를 좀더 크게 잡아주는 명령어를 사용하여 코드를 돌렸다. 하지만 이 과정에서 putty의 network가 끊겼고 한동안 접속이 되지 않았다. 따라서 shared memory의 크기를 그대로 두고 다른 solution을 찾았다.

![스크린샷이(가) 표시된 사진

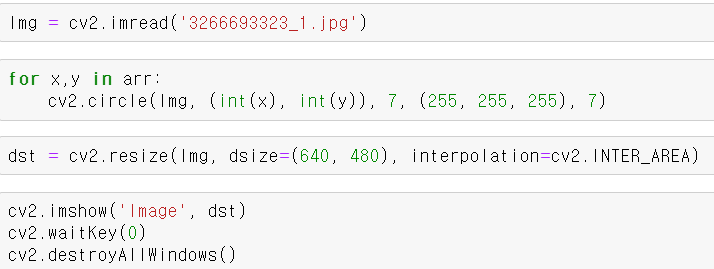
자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gO2YhOynhAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNjkAAJKSAAIAAAADNjkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Docker의 표준 문서에 근거한 답변이라고 한다. --ipc=host를 추가하면 문제를 해결할 수 있다고 하였고 이를 추가한 docker run 명령어를 사용하였다. 또한 학교 측에서 대여해주는 gpu 서버를 사용하고 있다고 생각하였으나 gpu를 사용하기 위해 서버의 gpu와 docker container의 gpu를 연결해주어야 한다. 해당 명령어는 --gpus all이다. Docker run 명령어에 해당 내용들을 추가해주면 “docker run --ipc=host --gpus all -it (이미지 이름)”과 같다. 이를 통해 container 내부에서도 gpu를 사용해 프로그램을 돌릴 수 있다. 추가적으로 -v (볼륨 연결)를 명시하거나 -it 대신 -itd를 통해 putty를 종료해도 docker container가 계속 daemon에서 돌아갈 수 있게 해줄 수 있다. 다시 한번 프로그램을 돌리는 환경을 갖추는 것에 상당한 노력이 필요하다고 생각했다.

환경이 모두 갖추어 진 뒤 프로그램을 돌리는 과정은 순조로웠다. af2, helen, ibug, lfpw face dataset을 사용하여 train을 진행하였고 결과로 68개의 face landmark가 dotting 된 사진을 얻었다. Face landmark 파일은 pts로 되어 있어, 제대로 face landmark가 dotting 되었는지 확인하기 위해서는 따로 python 코드를 작성해 주어야 한다.



68개의 face landmark점이 포함된 pts 파일을 array로 변환하는 read\_pts 함수를 정의해 landmark point들을 모두 array로 type 변환해 준다. 이후 cv2 llibrary를 통해 image 위에 dotting을 진행한다.



이를 통해 얻은 face landmark detection 결과는 아래와 같다.

사람, 남자, 실내, 앉아있는이(가) 표시된 사진

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testset으로 train 된 model을 통과시켰을 때 정확히 dotting이 되는 것을 확인할 수 있었다. 이제 다른 사진도 test해보기 위해 input 파일을 업로드하였다. 하지만 pts 파일이 없다는 오류가 발생했다. train시킬 경우 face landmark 점들로 학습을 진행하여야 하므로 pts 파일을 입력 받는 것이 옳다. 하지만 해당 코드에서는 test를 진행할 경우에도 data를 loading시키는 데 있어서 pts 파일을 입력 받고 있었다.



train 과정과 test 과정에서 모두 dataset.py 파일을 통해 dataset을 load하는데 이 과정에서 Dataset이란 class 내부에 \_\_getitem\_\_ 함수에서 image 파일만 loading을 하는 것이 아니라 pts 파일도 loading을 진행하고 있었다. 이 부분에서 pts 파일을 load하는 부분을 건드리면 train 과정에서 문제가 발생하였다.

Test 과정에서 pts 파일을 loading하는 것은 의미가 없다. Mask 착용 사진이 input으로 SHN에 주어지면 SHN을 통과한 뒤 68개의 face landmark 점을 output으로 얻는 것이 SHN을 통과시키는 목적이기 때문이다. 따라서 지난 번 찾아 두었던 git 오픈소스 중 face alignment 부분까지 포함하고 있는 SHN 코드도 돌려보기로 방향을 잡았다. ST-GAN로 alignment를 진행하려 했으나 SHN을 먼저 진행하게 되었으므로 SHN에서 alignment를 진행하는 것이 옳은 방향이 되었기 때문이다. 따라서 다음 주차에서는 mask 쓴 얼굴에 대해 face landmark를 잘 detect하는지에 대해 확인하고자 한다.

**10주차**

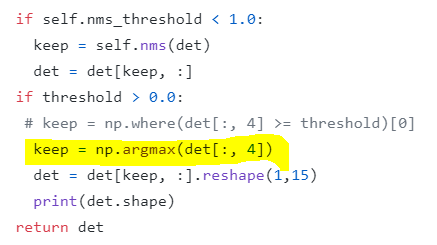
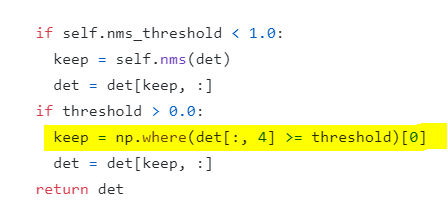
계획 : k-nearest를 통한 face recognition, 얼굴 인식 성능 측정(2)

진행 : Stacked hourglass network를 이용하여 landmark 점 찾기(2)

<https://github.com/deepinx/deep-face-alignment>

위의 오픈소스로 face landmark detection을 진행하였다. 이번 역시 환경 문제로 한 줄마다 import 오류, 버전 오류가 많이 발생하였다. 오류를 해결하던 도중 위의 open source에서 사용하는 환경을 갖춘 docker image기 존재한다는 것을 확인하고 해당 image를 pull하여 git clone을 진행한 뒤 face landmark detection을 진행하였다. (image name : mxnet/python:gpu)

Pretrained 모델을 사용하였고 test를 진행하는 과정에서 정면 사진은 face landmark detection에 성공하였지만 mask 착용 사진에 대해서는 face landmark 점을 생성하지 못하고 오류가 발생했다. 이 부분을 해결하기 위해 에러가 생긴 소스코드의 수정을 진행하였다.



essh\_detector.py의 파일에서 왼편인 원본 python 파일에서는 threshold 값인 0.4를 넘는 값을 찾아 해당 array를 기준으로 face landmark를 찾아낸다. 하지만 마스크를 착용한 얼굴에 대한 dat 배열을 출력해 확인한 결과 threshold인 0.4보다 큰 값을 갖는 value가 존재하지 않았다. 따라서 이 부분을 threshold 보다 높은 값의 point 중 하나를 기준으로 잡는 것이 아니라 array 중 max 값을 갖는 value를 기준으로 face landmark point들을 detect하도록 수정해주었다.

그 결과 마스크 쓴 얼굴 사진도 에러가 발생하지 않고 결과를 도출해낼 수 있었다.

사람, 실외, 건물, 의류이(가) 표시된 사진

자동 생성된 설명사람, 실외, 건물, 야구이(가) 표시된 사진

자동 생성된 설명

의류, 젊은, 착용, 가장이(가) 표시된 사진

자동 생성된 설명의류, 착용, 젊은, 조그만이(가) 표시된 사진

자동 생성된 설명

단, 얼굴 부분만 나타나 있지 않고 상반신이 나온 사진이나 흐릿한 사진에 대해서는 face landmark가 얼굴을 제대로 detect하지 못하였다. 따라서 얼굴 부분만을 추출하여 다시 SHN을 통과시킨 결과 제대로 된 detection이 진행되는 것을 확인하였다.

사람, 실내, 케이크, 착용이(가) 표시된 사진

자동 생성된 설명

<https://medium.com/@jongdae.lim/%EA%B8%B0%EA%B3%84-%ED%95%99%EC%8A%B5-machine-learning-%EC%9D%80-%EC%A6%90%EA%B2%81%EB%8B%A4-part-4-63ed781eee3c>

위의 사이트에 따르면 face landmark 점을 바탕으로 affine transformation을 진행한 뒤 face recognition을 진행하는 neural network를 통과시켰다는 내용이 존재했다. 따라서 본 연구에서도 SHN을 통해 도출된 68개의 landmark point를 기준으로 affine transformation을 진행해보았다. Face recognition을 진행하기 위해 준비한 사진은 마스크를 쓴 3명의 연예인 사진과 해당 연예인의 정면 사진이다.

사람, 의류, 실내, 조그만이(가) 표시된 사진

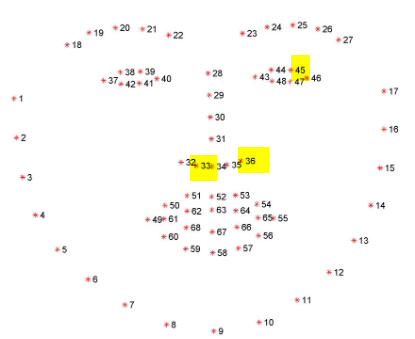
자동 생성된 설명의류, 건물, 사람, 서있는이(가) 표시된 사진

자동 생성된 설명

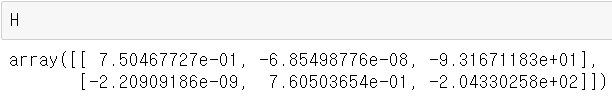
Affine tansformation을 진행하는 코드는 openface의 소스코드 중 align\_dlib.py라는 파일의 내용을 수정하여 작성하였다.

Openface library에서는 face recognition을 진행해 주는 소스코드로, 사진을 입력하면 알아서 얼굴 영역을 detect하고 이를 바탕으로 affine transformation을 진행한다. 이렇게 aligned 된 image를 DNN network에 통과시키는데 이 DNN network를 google 측에서 제공해 준 것이다. Openface 오픈소스를 통해 face detection과 face recognition까지 전부 할 수 있을 것이라 생각했지만 마스크를 착용한 사진을 input으로 제공한 경우 affine transformation조차 진행하지 못하였다.

Openface model에서는 마스크를 쓴 얼굴의 face detection이 실패하였으나, 본 연구에서 진행한 SHN에서는 face detection에 성공하여 68개의 landmark 점들을 찾을 수 있었다. 따라서 openface의 소스 코드 중 face landmark를 input으로 받아 align을 진행하는 코드를 찾아 affine transformation 하는 코드를 응용해보게 된 것이다.



Affine transformation을 진행하고자 기준이 되는 세 점을 잡았고 그 점은 위의 사진에서 노란색으로 표시된 33, 36, 45의 세 점이다. 이를 기준으로 H matrix를 구하였는데 이 것이 의미하는 것이 무엇인지 정확히 알지 못하고 transformation에 도움이 되는 인수일 것이라 생각했다. 하지만 미팅을 통해 이대호 교수님의 설명을 들으며 H matrix가 의미하는 것이 무엇인지 알게 되었다.



![시계이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gO2YhOynhAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMDUAAJKSAAIAAAADMDUAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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oAKKKKACiiigDyD44f8hLw1/wBfQ/nXrdv/AMe0f+4v8q8k+OH/ACEvDX/X2P5163b/APHrF/uL/KgCSiiigAooooAKKKKAGSIJI2RhkMMGvnn4keC9b8KeMG8a6F/q0G0hRkj8K+iahurWC8hMN1Ek0TdUcZBqGmpqcXZotNcrjLZny/qvxc8U69YJo1uji4vF8vPl8ZPFevfCHwXe+GvDSPryqdRZixI7A12aeGNDjmWWPSrVZEOVYRDIrUAxwBitk4xTcV7z3ZjKLlaL+FbBS0UVBYUUUUAFFFFABRRRQAjKGUg9DXgXxQ8I654f8SSeLPDoGWODgZIFe/VDcW0N1CYrmJZYz1VhkVDi+ZTi7NFxkknGWz3PmW9+KvivXtK/sO1VhdTp5eTH3r1P4ReCL3w9osd3rgH9pPncR6ZruY/DeixTCaPS7VJAchhGMitMDHStouMbtL3nuzOa5rLogpaKKgYUUUUAFFFFABRRRQAVw/xTt5Ljw2qxKWIbPAruKint4rhNs8ayL6MM1nUjzxsaU58kuY8++DqMmh3QdWU+YOox616NUFvaW9opW2hSIE5IQYzU9dNap7SfMctGn7KCiFFFFZGwUUUUAFMl/wBU30NPpkv+qb6GgDzof8j/AG3+8a9Irzhf+SgW3+9Xo9ABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACGvHfhZ/yVLxX/v8A9TXsZ6V458K/+SpeK/8Af/rQB7GOlFA6UUAFFFFABRRRQBRuNKtbm4E8ybn9auIgjQKvAAwKdRTvpYN3cKKKKQBRRRQAh6GvN9X/AORttv8ArpXpB6GvN9X/AORutf8Arp/WgD0gUtA6UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAePeG/+Th9X/65n+Rr2GvHvDn/ACcRrH/XM/yavYaACiiigAooooAKKKKACiiigAooooARhuBB714X8WvA+tQ6yvinQAN9oM8cmvdajmhjuIjHMiujdVYZBrOULyUk7NFxkldPVM+X5vjP4r/smPTir/a5h5ZPl9zxXovwc8Cajp9q2reKFBv3ffGfQGvST4X0MyK50m03qcg+UOK1ERUUKgCgdAK6IuKvNL3n1/yMZx5vc+z2MzWPD9lrgjF8pIjORir9tbRWkKxQqFUDFS0tZ9LIvS5i3nhTS728F1NF+9Dbsg45rL8f+JB4a8LzSwBzMoAQKM9q66q11p9pfIUvLeOdD/C65FRKN48i2LjJKfMzyz4aeFDfrea7qUeW1GPI3D61kJdX/gf4o2+n7X/s2X522rnqa9ugt4raJYreNY414CqMAVDPpdjdTia5tYpZV6Oy5IrbntVU1sla3l/mZJPklGTvd3JredLmFZoslG5Ga47x74a1LX7Ux6aVDcfeNdoiLGoVAFUdAO1OrKUVJp9ncuLaRj+GNPn0vw/bWl3jzo1w2Ku6jYRalYyW043I4q3RVVP3l79RRvC1j5a1S08WfCDxhd6lEN1hfSERbBu4qDVfGXif4o6jH4YiVws2CSyYFfUN9pdjqaKuoWkVyqnKiVc4qC18PaRY3IuLTTbaGYdJEjANOnbT2uttv0uOVkr09G9zM8EeGE8L+G7ayYDzljAkIPU1cbwzp760uqNHm5UYBrYNLTlJylzGcYpR5SKaFJ4HhkGUcFSPaqOnaBY6UT9jTZk5rSpalaO5fSxFPEJoHjPRhg183/ETRL9PHC6dZEeQxDbQee1ez+OvHdr4KtI5Lrbul+4G715j4PS68cfExPEUob7GBjb1X0/pU0oOpWjKO0dX/kXUfJRd+u3qexeFLAaf4ZsY8YcRLu+uK2aREEaBF4AGBThWspczbMoR5YpHmnxR8G634n1fRp9FKCO1fM249s13+l2z2tgkUv3gOauUgrOCUE0uupcnzOLfQWo5v9W2PQ1JSEZHNKS5otAj5++F1rPbfETXGmidQ9wSpK9ea+gf4cVVi0uxgmaWC0ijkY5ZlUAmrVbSlzRiuw5yc6sqncyF8Nacl99qEWZd27J9a05oUniMci5U9alorN6qz2J63MrSvD9ho8sz2KFTMcvzWoKWim23uJJI4b4oRtL4bnjjUszRkDAqP4QQSW3gWGOZSrBuhGK7ee2huV23ESyL6MM0Q28NtH5dvEsadgoxRT9yMo93cc1zNPsTUUUUgCiiigAooooAKKKKACiiigApsn+rb6U6myf6tvpQB5zcf8j5af75r0g9a83uP+R6tP8AfNekHrQAUUUUAFFFFABRRRQB5B8cP+Ql4a/6+x/OvW7f/j1i/wBxf5V5J8cP+Ql4a/6+x/OvW7f/AI9Yv9xf5UASUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUYoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKZL/qm+hp9Ml/1TfQ0Aedr/wAlAtv96vR684X/AJKBbf71ej0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAB6V478K/+So+K/8Af/rXsR6V478K/wDkqHiz/f8A60AexDpRQOlFABRRRQAUUUUAFFFFABRRRQAUUUUAIehrzfV/+Rutf+un9a9IPQ15vq//ACN1r/10/rQB6SOlFA6UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAePeG/+TiNY/wCuZ/k1ew1494b/AOTiNY/65n+TV7DQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAGKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDmvFngTRfGiwrrsLSiA5Ta2KvaB4Z03w1Yi00qHy4h6nJrXopx91NLqEvetfoJS0UUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKbJ/q2+lOpsn+rb6UAec3H/I9Wn++a9IPWvN7j/kerT/fNekHrQAUUUUAFFFFABRRRQB5B8cP+Qj4a/6+x/OvW7f/AI9Yv9xf5V5L8bwTqXhrAz/pY/nXrVvxbRf7i/yoAkooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKZJ/qm+lPprjMbAdwaAPOl/5KBbf71ej15yAV+INsD13V6NQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAhrx74V/8lQ8Wf7/9a9hNeF6a/iLwV481y+tNEkvYr6TIOD60Ae69qK8tg+IviqWYI/hmRFJ64r0nT55bmwimnjMcjrlkPagCzRRRQAUUUUAFFFFABRRRQAUUVQ1i8nsdNlntIDPKi5WMdzQBePQ15vrH/I22v/XT+tUY/iV4tOd3haXrgcGjRZda8Ta4l3qemPYiJ8gEdaAPVxRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB494b/AOTiNY/65n+TV7DXj/hwH/hofWDj/lmf5GvYKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigApsn+rb6U6muMoQPSgDzm4/5Hq0/3zXpB615vcKV8d2m4Y+Y16QetABRRRQAUUUUAFFFFAHl3xk8GeIvFh0d/DDoklnNvcscU2Sy+J4SNYrqEBVANep0mBQBzPhGHxLEJP+EmlWQ4+XbXT0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZPiNNVk0iUaC6pd4+QmvPBY/FUwFWvIdxHrXrNFAHmPhDwp4ri1hL/xRMkjo2RtNenUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAeLXvgbxxa/F2/8R6LNGtnOpCgnnpWstn8UPPy13Dsz0r1OigChoy3y6VCNVYNdY+cir9FFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGX4gTU5NJmXRHCXePkJ9a87Wx+KvkkPeQ7j716xRQB5d4U8KeLF1lL7xPNHIUbI2ntXqOc0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//9k=)

하단의 matrix 연산을 나타낸 것은 affine transformation이 진행되는 수식을 나타낸 것이다. 여기서 H가 의미하는 것이 바로 [[a11, a12, atx], [a21, a22, aty]]이다. 이를 바탕으로 affine transformation을 진행하였고 landmark point도 affine transformation을 진행하여 얼굴 부분만을 담고 있는 image와 face landmark를 각각 jpg와 npy 파일로 저장하였다.

의류, 실내, 조그만, 아이이(가) 표시된 사진

자동 생성된 설명 테이블, 음식이(가) 표시된 사진

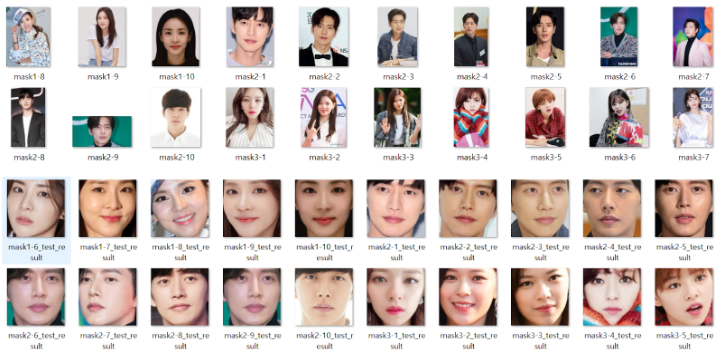
자동 생성된 설명

이로써 face detection에 성공하였고 face landmark 점과 얼굴 부분을 담고 있는 image를 바탕으로 어떻게 face recognition을 진행할지 관련 논문이나 오픈소스를 찾아보도록 한다.

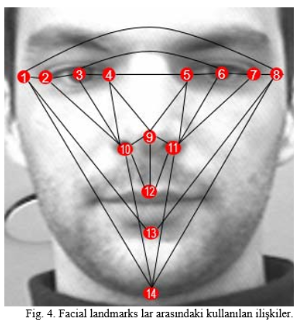
**11주차**

계획 : deep feature 혹은 그 외의 face recognition 알고리즘을 통해 성능 개선(3)

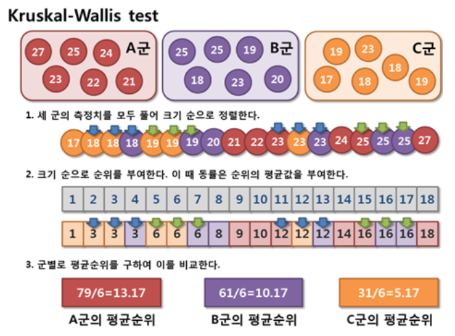
진행 : Face landmark point 기준 유사도 평가 방법 고안



상단의 그림 중 첫번째 줄 ~ 두번째 줄은 input image이고, 셋째 줄 ~ 마지막 줄은 affine transformation을 통해 face region을 찾은 결과이다. 총 3명에 해당하는 사람들에 대해 face db를 구축하였다. 각 1명에 대해 10장의 trainset의 이미지와 1장의 testset 이미지를 갖게 되어 face db에는 총 31장의 이미지가 존재한다. 이를 바탕으로 사람 간의 유사도를 어떻게 평가하여 face recognition을 진행할 것인지에 대해 찾아보았다.

가장 먼저 찾아본 것은 ‘Face Recognition by Distance and Slope between Facial Landmarks(2017)’라는 논문이다.

좌측과 같이 총 14개의 점들을 정한 뒤 각각의 점들에 대해 distance와 slope를 계산한 값으로 recognition을 진행하는 방법이었다. 이 논문에서는 각 점 간의 distance와 slope가 사람마다 고유하다는 사실을 Kruskal-Wallis 검정을 진행해 증명하고 있었다. Kruskal-Wallis 검정은 여러 군에 해당되는 data 값에 얼마나 차이가 있는지 확인하는 방법이다. Kruskal-Wallis 검정의 원리를 간단히 설명하면 아래와 같다.

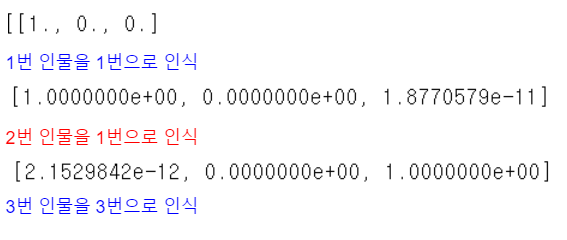


위의 그림에서 A군과 B군, C군을 사람 1, 사람 2, 사람 3으로부터 추출한 landmark 점 기준 14개의 distance와 slope 값이라 가정한다. 이 값들에 대해 크기 순으로 정렬을 한 뒤 순위를 매긴다. 이후 각 군마다의 평균 순위를 계산한다. 만약 이 평균 값들이 비슷하다면 A군과 B군, C군에는 차이가 없다는 것으로 간주한다. 평균 값 간의 차이가 존재한다면 그 값은 A군, B군, C군을 구분하는 역할을 해주는 것으로 간주한다. 이 Kruskal-Wallis 검정을 통해 해당 논문에서 68개의 face landmark point 중 선정된 14개에 대해 각각 distance와 slope를 구한 것이 사람을 구분하는 역할을 해준다는 사실을 뒷받침하였다. 또한 이 distance와 slope를 구해 matrix로 만들고 MLP를 진행한 결과 recognition의 성능이 가장 높았다는 사실도 알 수 있었다.

이를 통해 본 연구에서는 논문에서 제시한 14개의 point 중 마스크에 의해 가려진 point를 제외, 1~8 점들 사이의 distance와 slope를 계산한 총 18개의 attribute를 갖는 matrix를 구한 뒤 그 결과를 바탕으로 MLP를 진행해 recognition을 진행한다. Distance와 slope를 계산한 18개의 attribute의 value를 구한 것은 아래와 같다.

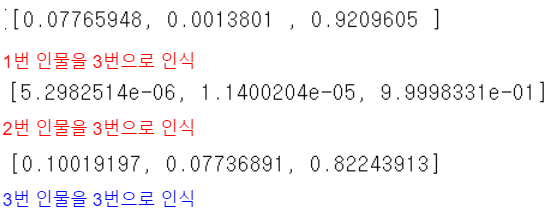


Overfitting을 우려하여 epoch은 50으로 진행하였고 MLP를 통해 도출한 softmax 값은 아래와 같았다.



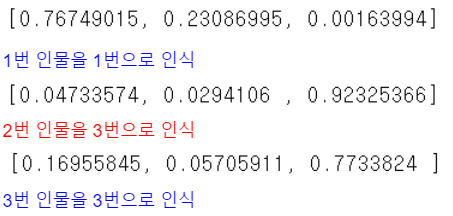
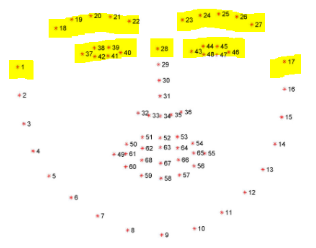
첫 번째 방법에서는 2번 인물을 1번으로 인식하고 있었다. 이를 방지하기 위해 다른 여러 방법들을 시도해보았다. 두 번째로 시도한 방법은 68개의 landmark점을 모두 사용하는 방법이다. 68개의 landmark가 마스크 쓴 영역에 대해서도 reasonable하게 dotting이 되고 있으므로 이 방법을 사용해도 좋을 것 같다는 생각에서 진행하게 되었다. Epoch는 동일하게 50으로 진행하였다.



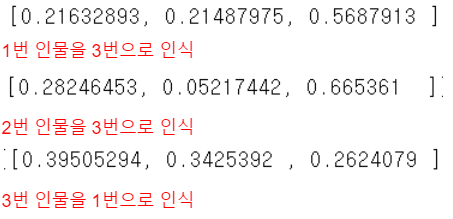


오히려 성능이 나빠졌다. Softmax 값을 확인한 결과 1번 인물을 3번으로 인식하고 있었고 2번 인물도 3번, 3번 인물 역시 3번으로 인식하고 있었다.

세 번째와 네 번째 시도는 눈 주변의 landmark point만을 추출하여 MLP와 DNN 모델을 통과시키는 방식으로 진행했다. 이번에도 역시 epoch는 50으로 동일하게 진행하였다.

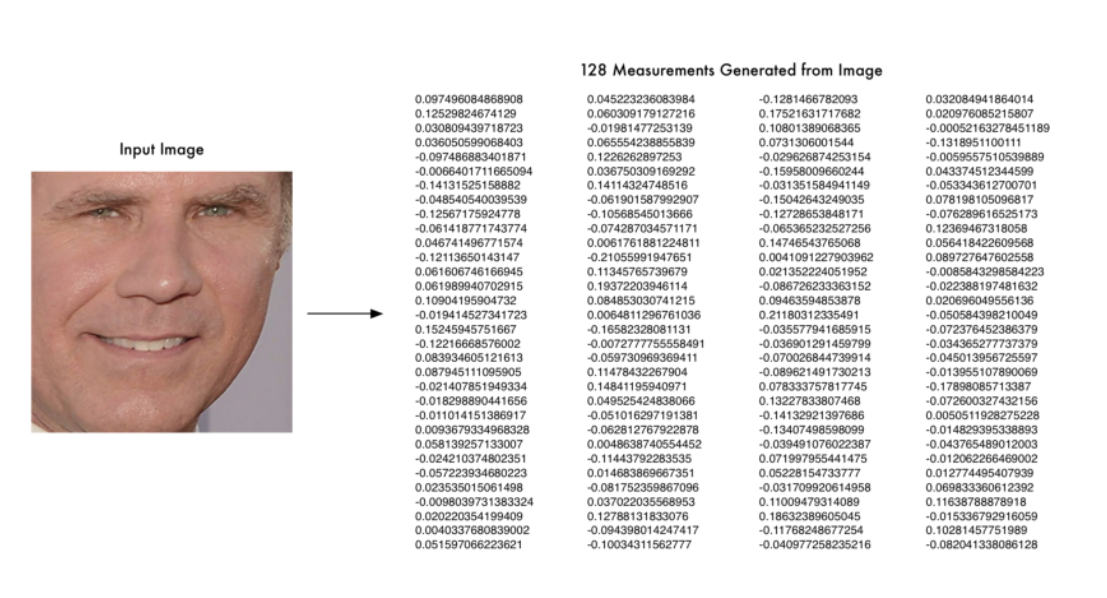


먼저 세 번째 방법인 눈 주변의 landmark point를 추출해 MLP 모델을 통과시킨 방법의 결과는 상단과 같았다. 1번 인물을 1번으로, 3번 인물을 3번으로 인식하고 있었으나 여전히 2번 인물을 제대로 예측하지 못했다.



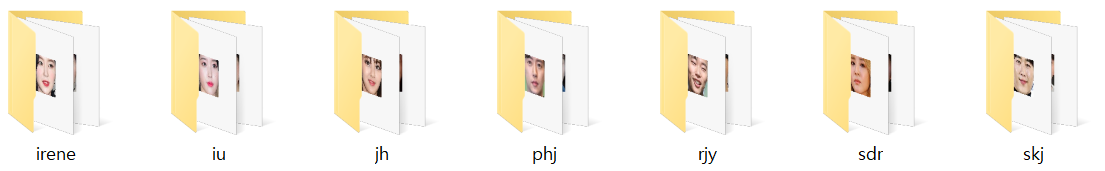
네 번째 방법인 눈 주변의 landmark point를 추출해 DNN 모델을 통과시킨 방법은 가장 낮은 성능을 보였다. 세 인물이 누구인지에 대해 단 한 명도 제대로 예측하지 못했다.

다섯 번째 방법과 여섯 번째 방법은 openface model을 사용하는 방법이다. 이 모델을 사용하면 128개의 embedding 값을 얻을 수 있는데 이 값이 정확히 무엇을 의미하는지에 대해서는 알 수 없으나 이 점들을 통해 face classification이 가능하다.

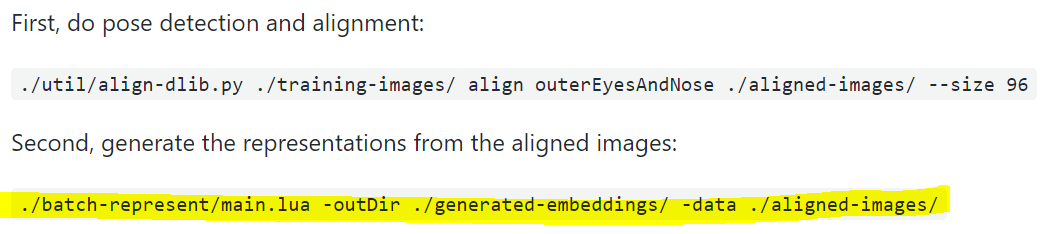


<https://gist.github.com/ageitgey/ddbae3b209b6344a458fa41a3cf75719>

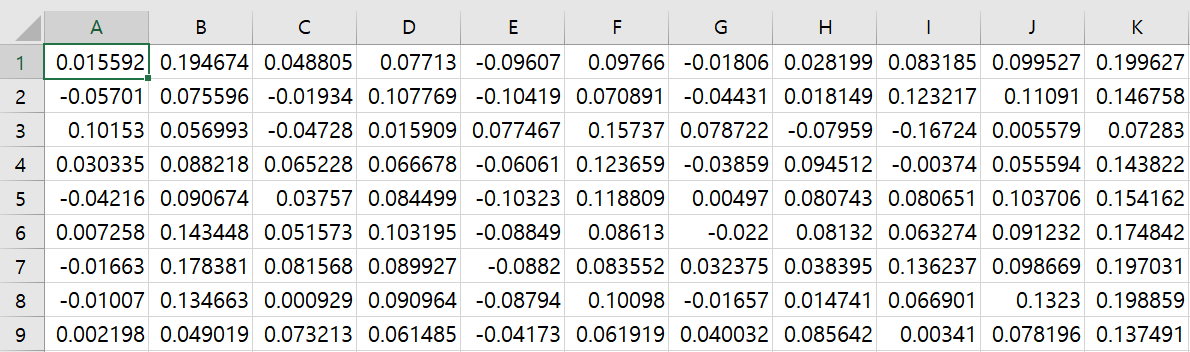
위의 링크를 참조하여 openface model을 통해 128개의 embedding 값을 얻을 수 있다. Docker container 형태로 제공되고 있어 사용하기 편리했다. Docker pull bamos/openface를 통해 환경을 구축하고 여기에 volume을 attach하여 dataset을 업로드하였다. 각 dataset은 아래와 같이 training-images라는 폴더 내에 인물별로 폴더를 지정하여 저장해주어야 한다.



하지만 training-images 폴더에 저장을 할 경우 align 과정을 한 번 더 진행한다. 본 연구에서는 이미 align을 진행하였으므로 align 된 output이 저장되는 aligned-images라는 폴더 내에 인물별로 폴더를 지정하여 저장해준다.



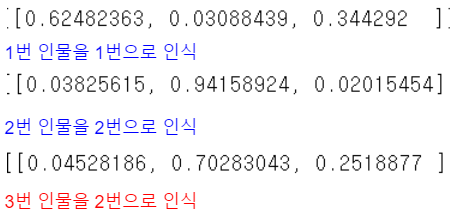
맨 위의 명령어는 align을 위한 명령어이므로 아랫부분의 highlight 처리 된 부분의 명령어만 입력해주면 embedding 값을 얻을 수 있다. Output 파일로는 labels라는 파일과 reps라는 csv 파일이 2개 생성된다.

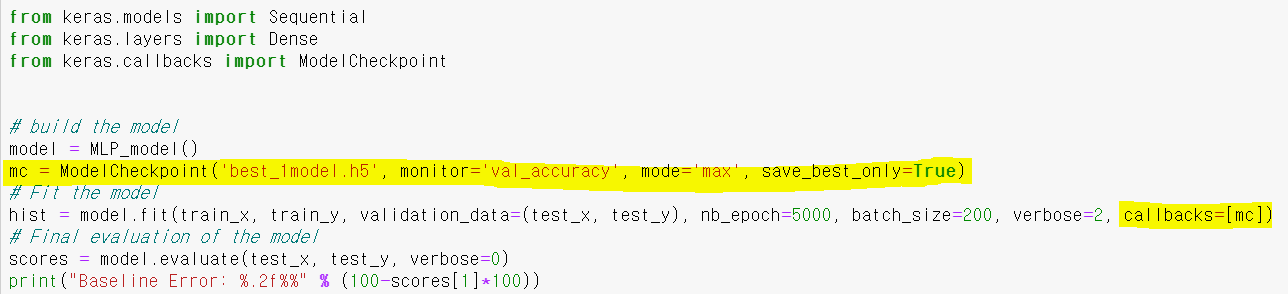
[ labels.csv ] [ reps.csv ]

labels.csv 파일에는 reps.csv 파일에 저장된 embedding의 정보가 어떤 파일의 어떤 인물에 해당하는지에 대한 정보를 제공한다. reps.csv 파일에는 각 파일에서 추출된 128개의 embedding 값이 저장되어 있다. 이 정보를 활용하여 matrix를 만들고 embedding 값으로 MLP와 DNN 모델을 통과시켜 보았다.

다섯 번째 방법은 MLP를 통과시켜 결과를 얻는 방법이고 여섯 번째 방법은 DNN을 통과시켜 결과를 얻는 방법이다. 결과는 아래와 같았다.



이번에도 역시 epoch을 50으로 하여 진행하였는데, 1번 인물과 2번 인물은 제대로 예측했으나 3번 인물을 제대로 예측하지 못했다. Epoch를 100으로 하여 재진행하고 학습 log를 확인했더니 val\_accuracy가 100%인 구간이 존재했다. Val\_accuracy가 max값(여기서는 100%)를 갖는 경우의 model을 저장하도록 코드를 수정하였다.



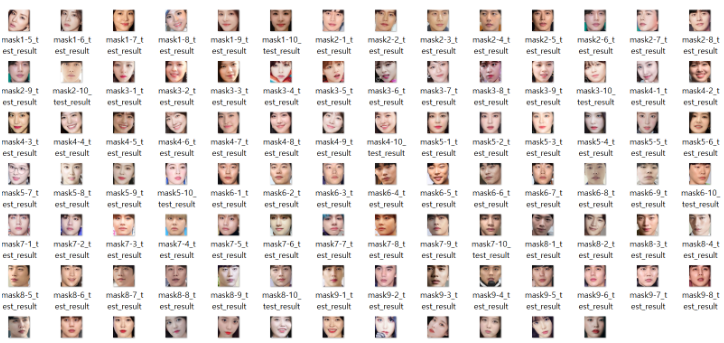
best\_1model.h5라는 이름으로 모델을 저장한 뒤 해당 모델을 load하여 진행한 결과 5번째 방법(128개의 embedding 값을 input으로 하여 MLP 모델로 분류를 진행한 것)에서 1번, 2번, 3번 인물을 모두 제대로 인식해냈다.

이 과정에서 이대호 교수님께서는 trainset의 수가 작기 때문에 이러한 결과가 나올 수 있다고 말씀해 주셨고 trainset을 좀더 늘려보는 방향으로 이후의 연구를 진행하기로 결정하였다.

**12주차**

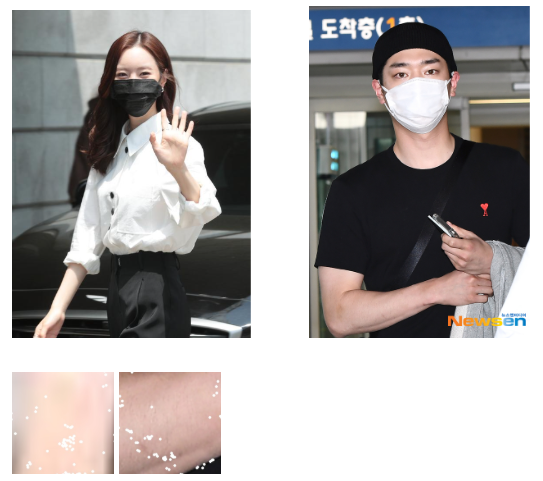
계획 : validation & update(1)

진행 : trainset 늘리기, validation & upgrade(1)



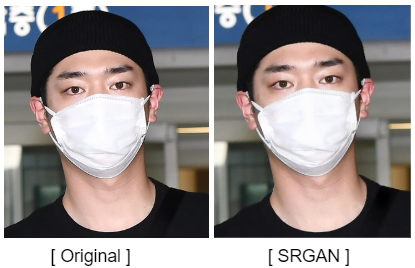
먼저, dataset의 수를 증가시켰다. 총 10명의 사람에 대해 10장의 정면사진과 1장의 mask 착용 사진을 저장하여 총 110장의 이미지 dataset을 구축하였다. 이 dataset으로 새로 face detection과 recognition을 진행해보았다.

먼저, face detection 과정이다. 이 과정에서 일부 사진들에 대해 SHN이 얼굴이 아닌 다른 곳을 얼굴로 인식하는 경우가 존재했다. 팔이나 손을 얼굴로 인식하거나 옷의 주름이 얼굴 모양과 비슷하여 얼굴이 아닌 옷 소매 부분을 얼굴로 인식하는 경우가 존재했다.

옅은, 비이(가) 표시된 사진

자동 생성된 설명

이러한 문제를 해결하기 위해 가장 먼저 시도한 것은 사진의 해상도를 높이는 것이었다. SRGAN을 통해 좀더 선명한 화질의 사진을 얻는다면 SHN의 detection이 더 용이해질 것이라 판단하였다.



SRGAN을 사용한 결과 사진의 선명함에 있어서 별 차이가 없었다. 오히려 전체적인 얼굴의 윤곽이 뚜렷해 지는 것보다 사진에 나타난 주름 등이 선명해진 것을 관찰할 수 있었다. 이에 대해 미팅 때 이대호 교수님의 말씀을 들으니, SRGAN은 일반 사진이 아니라 확대된 사진을 선명하게 하기 위해 쓰는 GAN 구조라는 것을 알 수 있었다.

다음으로는 얼굴 영역 외의 부분을 최대한 제외한 사진을 SHN의 input으로 주어 문제를 해결하고자 시도하였다. 다섯 차례의 시도 끝에 얼굴을 제대로 detect하여 face landmark 점들을 output으로 도출해낼 수 있었다.

SHN의 input으로 넣는 사진은 되도록이면 얼굴 부분만을 포함하여야 한다는 사실을 깨닫게 되었다. 또한 face db를 구축하여 해당 image들을 SHN을 통과시키며 관찰해 본 결과 흑백 이미지나 resolution이 좋지 않은 사진들에 대해서도 face detection이 잘 이루어지지 않는다는 사실도 알게 되었다.

다음으로 증가한 dataset에 대해 11주차 때 진행했던 6가지 방법을 통해 recognition을 진행해 본다. 이 과정에서 이전과는 다른 낮은 accuracy를 얻게 되었다. 첫 번째 방법인 distance와 slope를 이용한 MLP recognition에서는 30%의 accuracy를 얻었고 face landmark로 진행한 MLP recognition에서는 20%, 눈 주위의 face landmark로 MLP recognition을 진행한 결과는 50%의 accuracy, 동일한 data에 대해 DNN recognition을 진행한 결과는 30%의 accuracy를 얻었다. 128개의 embedding에 대한 MLP recognition에서는 37.5%, DNN recognition에서는 37.5%의 결과를 얻었다.

이대호 교수님께서는 각 결과의 softmax 값을 보시며 accracy가 낮아도 괜찮지만, 3번 인물을 90%의 확률로 1번 인물로 인식하는 것은 있어서는 안 될 일이라고 하셨다. 차라리 제대로 인식하지 못하는 인물들에 대해 ‘stranger’라는 항목을 넣어 인식을 못하는 것으로 처리하라는 말씀을 해 주셨다.

Accuracy 척도를 높이려고만 생각 했으나, face recognition에서 가장 중요한 것은 나를 다른 사람으로 인식하는 것을 막는 것이었다. 이를 반영하여 recognition 부분을 수정한다.

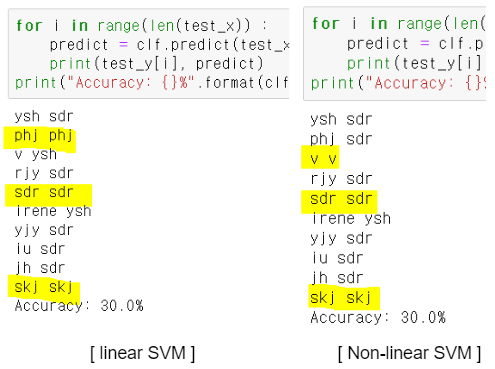
**13주차**

계획 : validation & update(2), 최종 검수 및 결과보고서 제출

진행 : validation & update(2), CCGAN 결과 확인, 결과 보고서 제출

먼저 MLP는 dataset이 많으면 많을수록 좋아는 이대호 교수님의 말씀에 따라 dataset을 좀더 늘려보았다. 10명의 인물에 대해 각각 20장의 정면사진(trainset)과 1장의 마스크 착용 사진(testset)을 수집해 총 210장의face database를 구축하였다. 하지만 앞선 6개의 분류 모델 결과에 유의미한 차이가 발생하지 않았다. 따라서 10장씩을 더 수집하여 10명의 인물에 대해 각각 30장의 정면사진(trainset)과 1장의 마스크 착용 사진(testset)을 수집해 총 310장의 face database를 구축하였다.

이대호 교수님께서는 embedding을 추출한 값에 대해 MLP보다는 SVM이 더 정확한 예측을 할 것이라 말씀해 주셨다. Openface 오픈소스에서도 SVM을 통한 인물 classification을 진행하고 있었으므로 SVM 모델을 통한 분류 정확도를 살펴보았다.



진행 결과 모두 30%의 accuracy를 얻을 수 있었다. 이는 앞서 분류에 사용한 6개의 방법과 비슷하거나 혹은 덜한 성능을 보이고 있었다. 유의미한 결과는 아니었지만 SVM을 통해 분류에 성공한 인물은 MLP와 겹치지 않았다. 예를 들면, MLP로 인식할 수 없었던 6번 인물을 SVM을 통해서는 분류가 가능했다.

다음은 Stranger 처리에 대한 부분이다. 먼저 database의 image 수가 늘어남에 따라 각 6개 방법의 accuracy 변화에 대해 살펴본다.

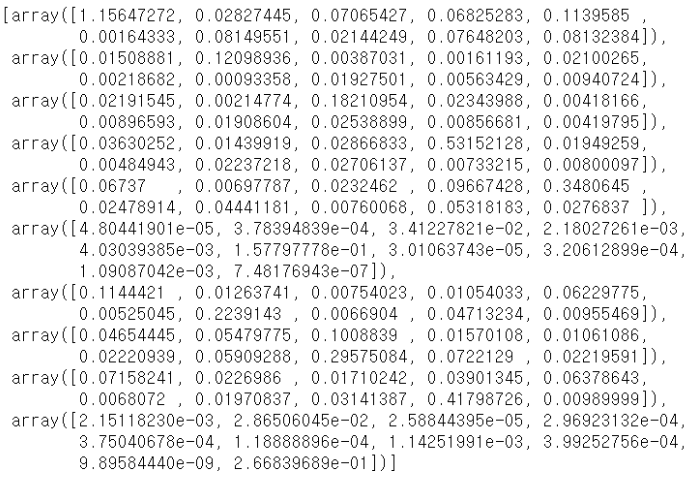
방법 1 : Accuracy : 30 % 방법 4 : Accuracy : 30% → 50%

방법 2 : Accuracy : 20% → 30% 방법 5 : Accuracy : 37.5% → 40%

방법 3 : Accuracy : 50% → 30% 방법 6 : Accuracy : 37.5% → 30%

Accuracy 변화가 없거나 오히려 감소한 방법도 존재했지만 방법 2,4,5에 대해서는 accuracy가 증가한 것을 확인할 수 있었다. Face landmark 점들을 활용한 MLP에서 성능 향상이 있었다.

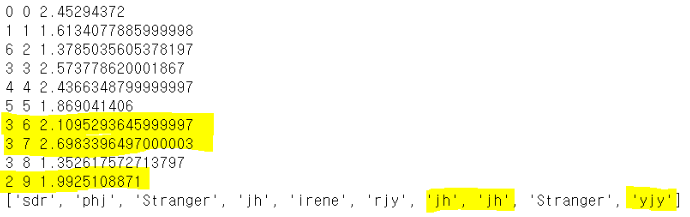
Stranger 처리는 softmax의 값을 활용하기로 결정하였다. 각 모델에서 산출된 softmax값을 모두 합한 뒤 threshold 값을 주어 threshold 미만인 사람은 stranger로 처리하는 방식이다. 이 경우 6개의 모델에서 나온 softmax를 모두 합한 결과는 아래의 그림과 같다.



배열의 max값을 살펴보면 대부분 비슷한 양상을 보이고 있어 threshold를 어떻게 정해야 하는 것인가에 대해 고민하다가 Stranger 값을 직접 집어넣고 softmax를 모두 합한 array의 max value가 무엇인지 측정해보기로 결정하였다. Face database에 없는 인물의 사진(좌측 참조)으로 방법1~6 분류 모델에 대해 softmax 값을 구하고 이들의 합을 계산한다. 그 값은 아래의 배열과 같다.

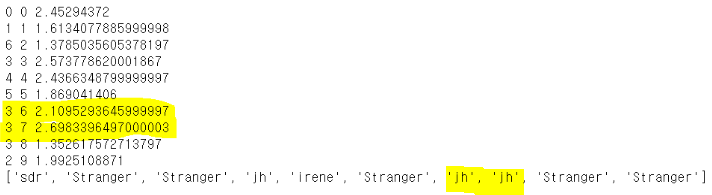


이 배열의 max 값은 1.4546242이다. 따라서 threshold 값을 1.45보다 높은 값으로 지정한다면 stranger를 stranger로 분류하게 될 수 있다. 본 연구에서는 threshold의 값을 1.5로 지정하고자 한다. 이를 통해 얼굴 인식을 진행한 결과는 아래와 같았다.



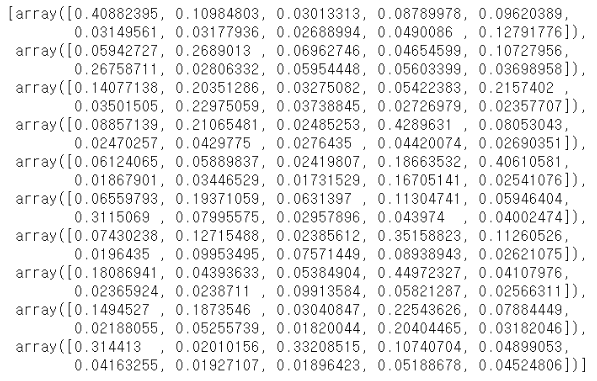
제대로 분류해 낸 사람의 수는 5명이고, stranger로 분류한 것까지 고려한다면 총 7명을 제대로 분류하였다. 6번 인물인 v와 7번 인물인 skj를 3번 인물인 jh로 분류하고 있고, 10번 인물인 iu를 2번 인물인 phj으로 분류하고 있다.

Threshold를 2.0으로 높인 결과는 아래와 같았다.

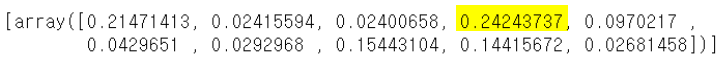


제대로 분류해 낸 사람의 수는 3명이고, stranger로 분류한 것까지 고려한다면 총 8명을 제대로 분류하였다. 6번 인물인 v와 7번 인물인 skj을 3번 인물인 jh로 예측하고 있다.

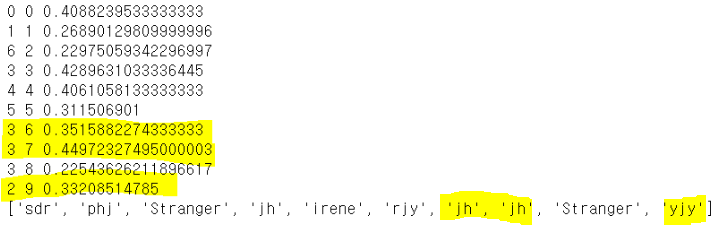
이번에는 softmax값의 합이 아니라 평균 값을 구해 비교해보았다. 평균을 구한다면 하나의 모델에서만 높은 확률로 예측된 것과 하나의 모델에서만 낮은 확률로 예측된 것들이 결과에 영향을 주는 것을 어느정도 막아준다. Max와 min값에 대해 영향을 덜 받게 되기 때문이다. 각 모델에 대해 softmax값을 구한 결과는 아래와 같다.



이 경우에서도 적절한 threshold 값을 찾기 위해 face database에 없는 사람(stranger)의 얼굴을 분류 모델들의 input으로 넣어 결과를 도출해 낸다. Face database에 없는 사람의 이미지는 앞선 사진과 동일한 사진을 사용한다. 이를 통해 각 6개의 모델에서 구한 softmax 배열의 평균을 계산한다. 그 결과는 아래와 같다.

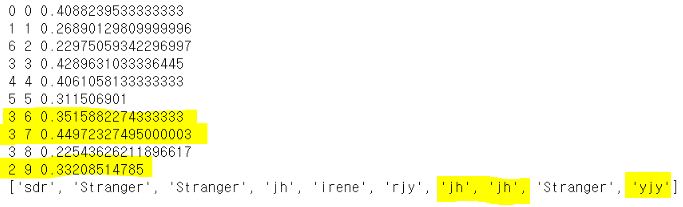


이 배열의 max 값은 0.24243737이다. 따라서 threshold 값을 0.24보다 높은 값으로 지정한다면 stranger를 stranger로 분류하게 될 수 있다. 본 연구에서는 threshold의 값을 0.24로 지정하고자 한다. 이를 통해 얼굴 인식을 진행한 결과는 아래와 같았다.



제대로 분류해 낸 사람의 수는 5명이고, stranger로 분류한 것까지 고려한다면 총 7명을 제대로 분류하였다. 6번 인물인 v와 7번 인물인 skj를 3번 인물인 jh로 분류하고 있고, 10번 인물인 iu를 2번 인물인 phj으로 분류하고 있다.

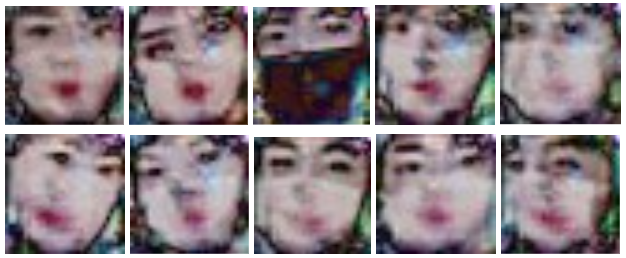
Threshold를 0.3으로 높인 결과는 아래와 같았다.



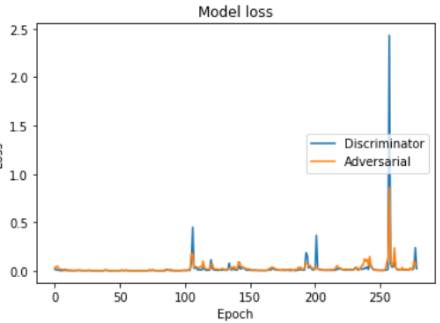
제대로 분류해 낸 사람의 수는 3명이고, stranger로 분류한 것까지 고려한다면 총 7명을 제대로 분류하였다. 6번 인물인 v와 7번 인물인 skj을 3번 인물인 jh로 예측하고 있다.

Stranger를 넣더라도 특정 인물을 다른 인물로 인식하는 경우가 존재했다. 이를 해결하기 위해 여러 GAN 구조를 살펴보았다. ST-GAN의 원리를 파악하고 나니 이미지 합성에 대부분 GAN 구조 혹은 GAN을 응용한 구조를 사용한다는 것을 알게 되었기 때문이다. 그렇게 해서 찾아낸 구조는 CCGAN 구조이다.

왼쪽의 자료는 MNIST 자료에서 고의적으로 occlusion을 만든 뒤 이를 제거한 사진을 output으로 얻는 과정을 나타내고 있다. 이를 응용한다면 mask 착용 사진에서 mask를 occlusion으로 볼 수 있을 것이라 생각했다. 이렇게 된다면 occlusion이 있는 fake image로 마스크 착용 사진을 지정하고 정면 사진을 real image로 두어 fake image와 real image가 서로 닮아가도록 학습을 진행해 유의미한 결과를 얻을 수 있을 것이다. 이러한 방법으로 CCGAN을 실행한 결과 아래와 같은 결과를 얻을 수 있었다.



GAN 구조 내에서 upsampling과 downsampling을 반복하는 과정에서 해상도에 문제가 생긴 것으로 추정된다. Epoch는 10000으로 설정하였고 중간중간 100 단위의 epoch마다 결과를 image 파일로 저장하도록 코드를 수정하였다. 위의 결과는 그나마 가장 결과가 잘 나타난 것으로, epoch 1300에 해당되는 사진들이다.



Model의 loss가 Discriminator, Adversarial 모두 0에 가까운데도 저러한 결과를 보인다는 것은 코드 자체가 output을 도출해내는 데 있어서 해상도를 고려하지 않고 있다고 생각했다. 미팅에 갔을 때 이대호 교수님께서 CCGAN과 같은 역할을 하는 것을 ‘Inpainting’이라고 한다는 것을 알려주셨다. 이와 관련하여 성능이 더 좋은 소스코드가 존재할 것이므로 한번 돌려 보는 것도 성능 향상에 도움이 될 것이라고 말씀해 주셨다.

우선, dataset을 늘리고 잘못 분류한 경우의 수를 줄이는 데 중점을 두고 진행한 뒤 Inpainting 관련 오픈소스를 돌려 마스크 위에 코와 입을 printing 해주는 방향으로 진행해보고자 한다.