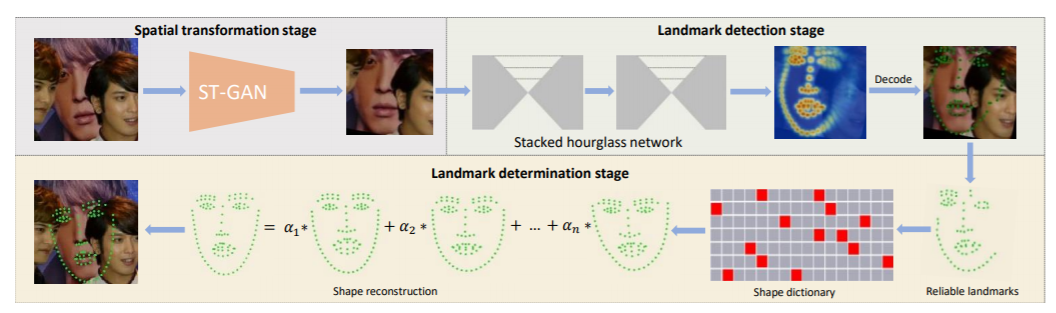
**초반(1~2주차)**

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.

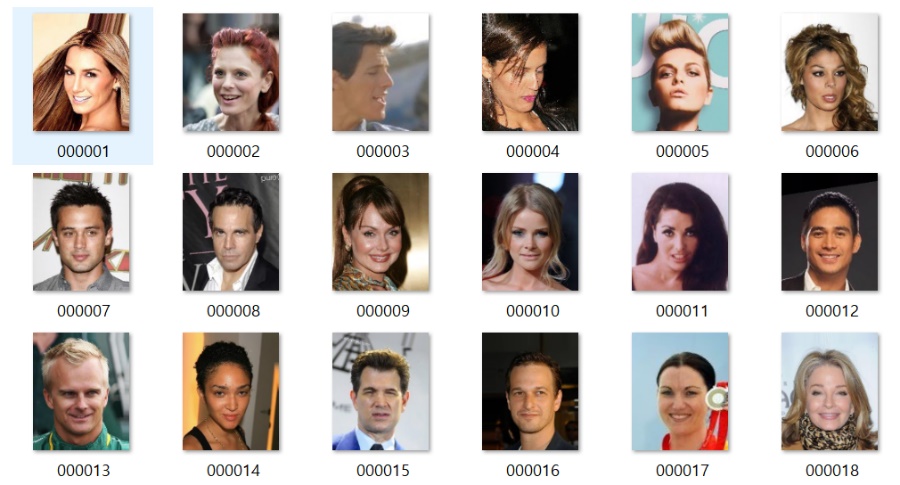
본 연구는 이미지 처리, 영상 인식과 관련이 높다고 판단하여 컴퓨터 비전 분야 교수님이신 이대호 교수님께 담당 교수님을 맡아 주실 수 있는지 연락을 드렸다. 이후 연구 계획서 등의 서류를 작성하여 세부적인 정량적, 정성적 목표, 진행방법 등을 정의하고 연구를 본격적으로 진행할 준비를 마쳤다.

**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.

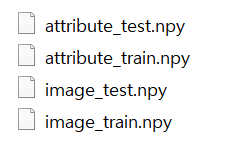
‘A Comparison of Face Verification with Facial Landmarks and Deep Featrues(2018)’라는 논문에서는 deep feature를 통해 얼굴 인식하는 방법을 언급하고 있었다. 이대호 교수님께서는 이 방법이 가능하려면 한 사람의 사진이 여러 장 필요하다는 단점이 있다고 말씀해 주셨다. Deep feature를 사용하려면 DNN을 돌려야 하므로 DNN을 학습시키기 위한 train data가 많아야 한다. 이러한 방법 보다는 기존의 논문에 언급된 방식처럼 정면 얼굴을 미리 확보해두고 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

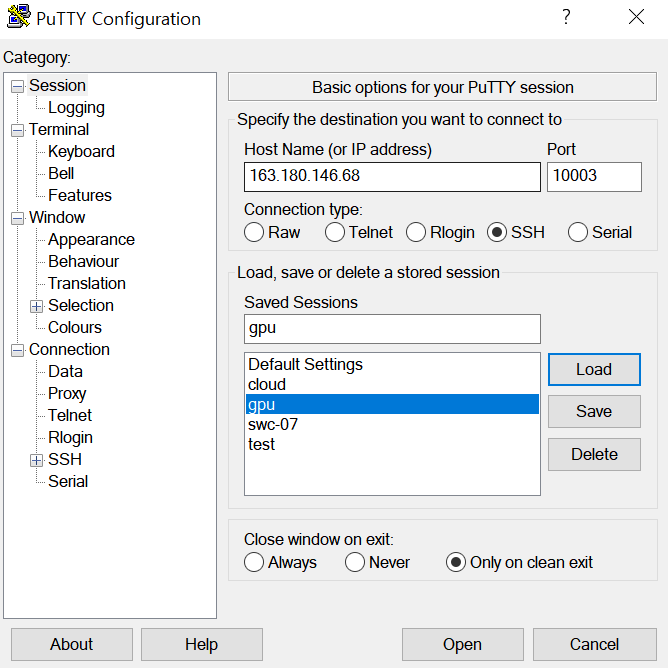
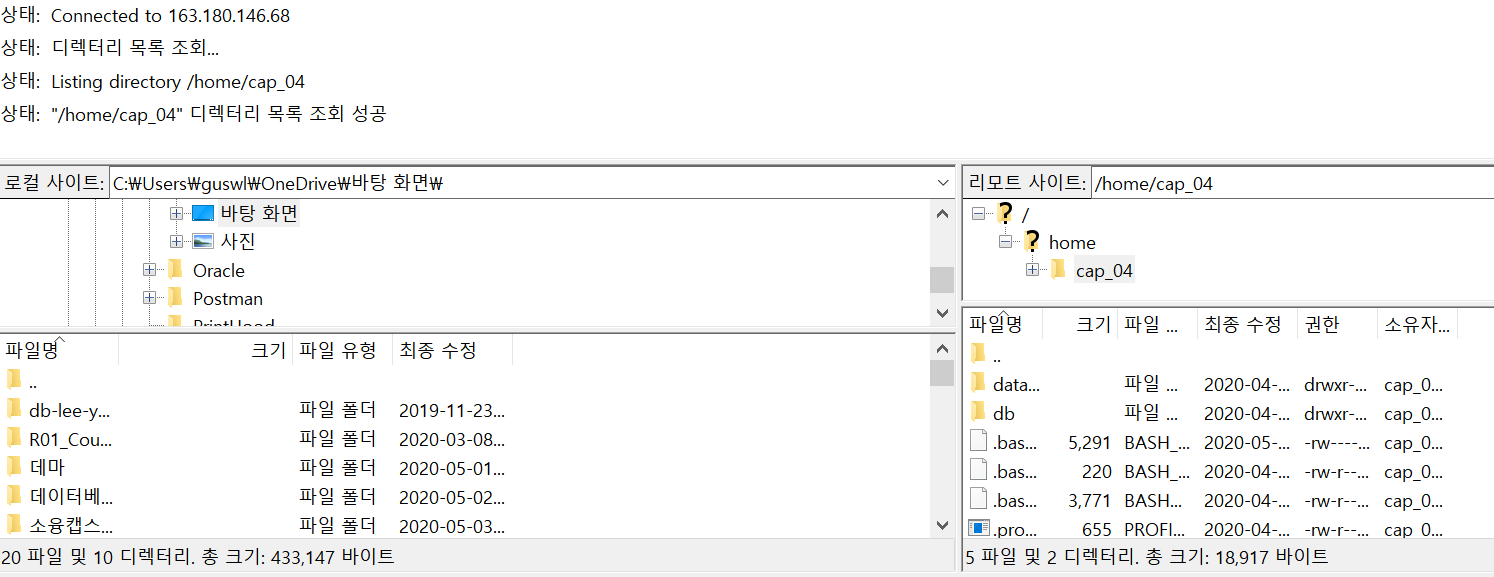
저번 주차에서 메모리 부족 문제가 생겨 이를 해결하는 작업을 진행하였다. 이대호 교수님께서 npy 내부의 행렬의 크기가 너무 커서 그렇기 때문에 이를 나누어 작업하라고 말씀해 주셨다. 전처리 코드를 살펴보니 train 이미지들을 전부 다 하나의 npy 파일 내부에 넣어 작업하고 있었고 이것이 부하를 만든 것 같았다.

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.

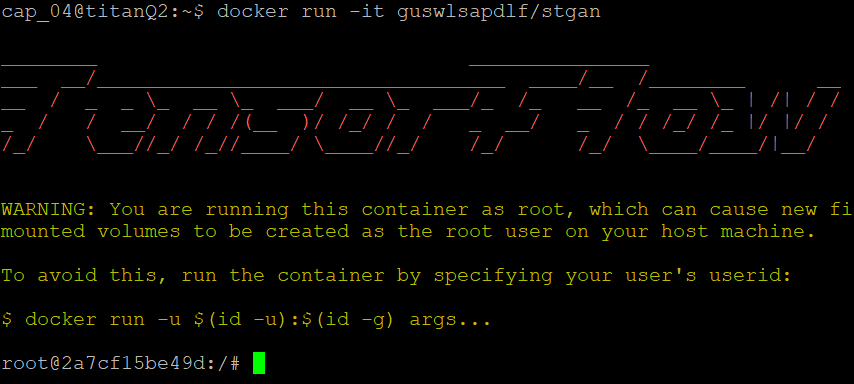
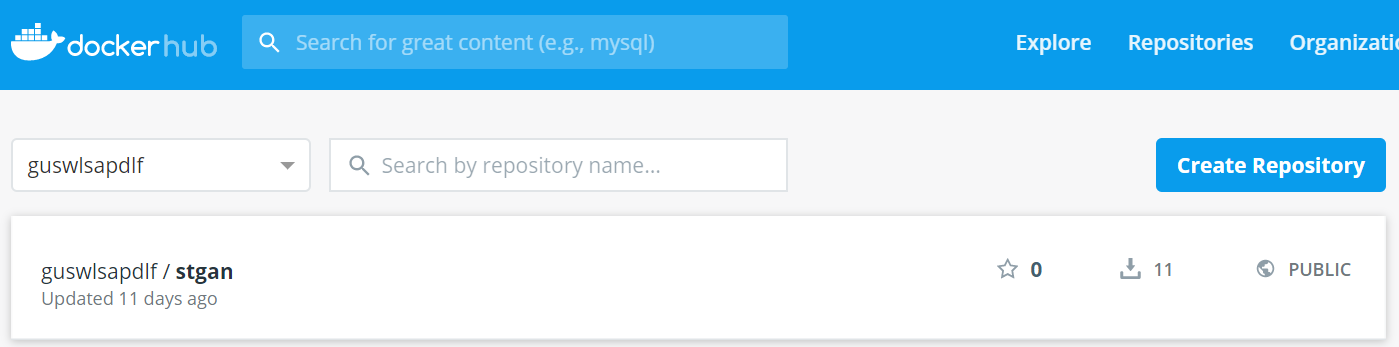
학교에서 GPU 서버를 빌리고, putty를 통해 접속한 후 서버 내의 docker container를 통해 머신러닝을 돌리는 방식으로 진행된다. 할당된 서버에 docker 환경을 구축하기 위해 docker hub에 guswlsapdlf/stgan 이미지를 생성해 push 해 두었고 이를 내려받아 컨테이너로 돌렸다. 이 과정에서 volume을 attach 해야 하는데 그러려면 할당받은 서버에 10GB의 이미지 dataset을 업로드해야 했다. 고용량 데이터를 업로드할 시 미리 연락을 해야 하므로 허가를 받는 과정을 거쳐 Filezilla로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

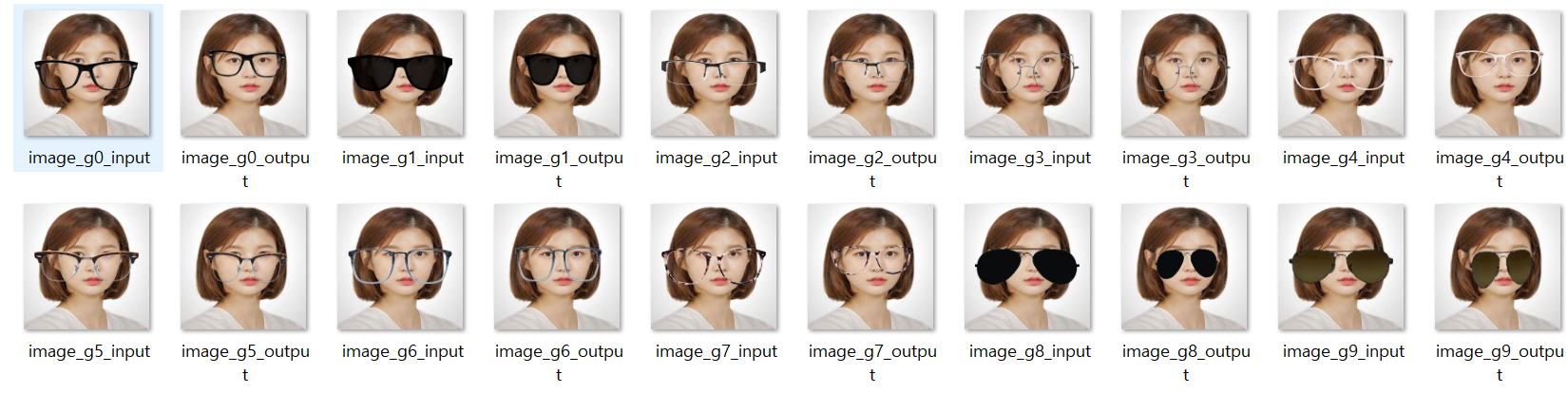
자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gO2YhOynhAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADODYAAJKSAAIAAAADODYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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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

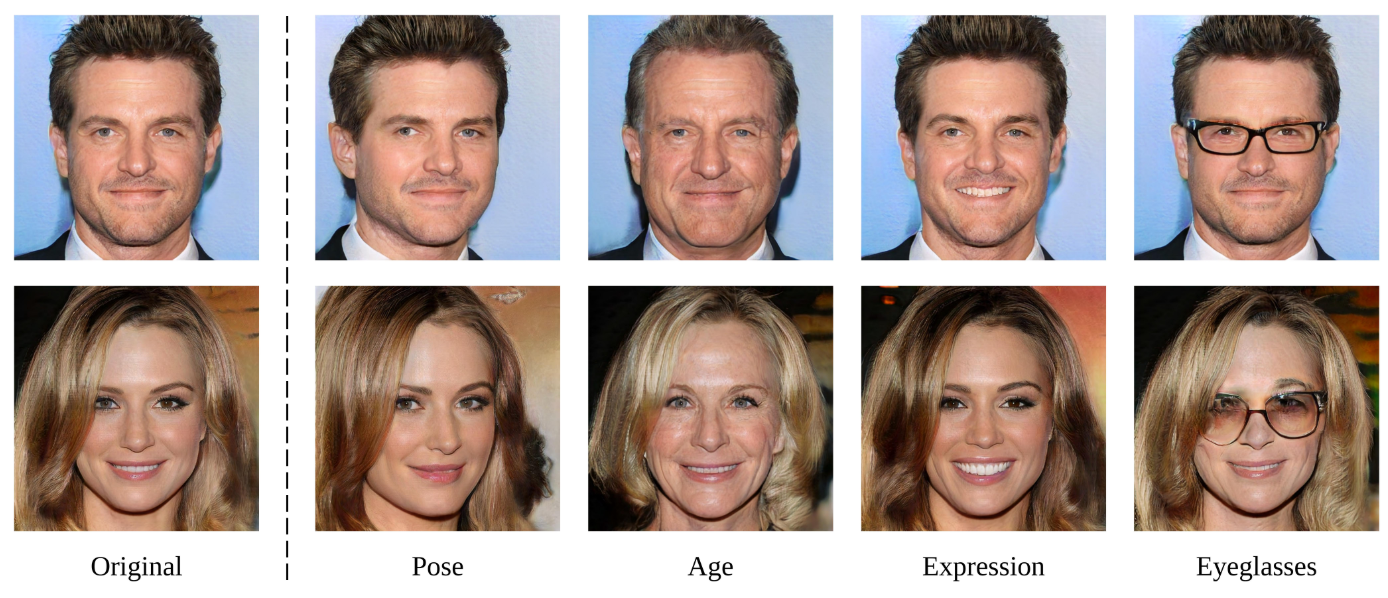
자동 생성된 설명





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.



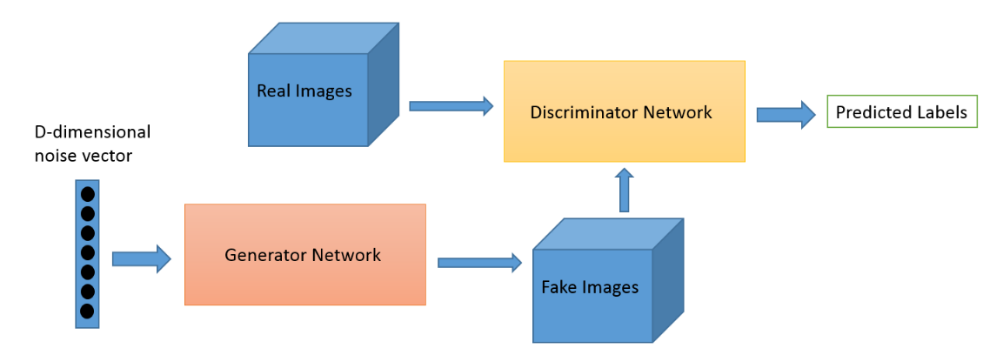
[ CelebA 측에서 제공하는 효과들 ]

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

**6주차**

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

진행 : ST-GAN 구축, hourglass network 오픈소스 찾기

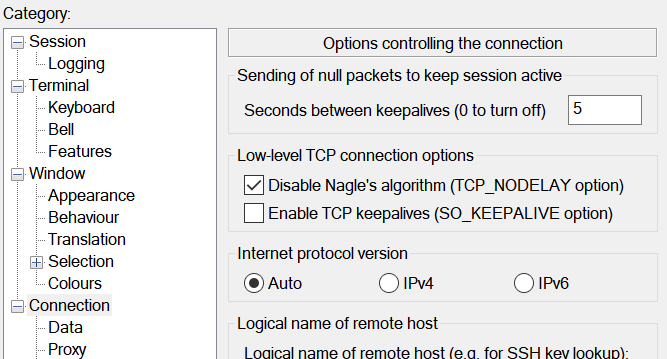
먼저 GAN 구조에 대해 학습하였다. 아래의 그림과 같이 GAN은 input으로 받은 real image와 gernerator network를 통해 특정 분포를 따르는 noise를 fake image로 만드는데 descriminator network가 real image와 fake image를 구분하지 못하게 학습시키는 것을 목적으로 한다. 그러면서 real image와 fake image가 서로 닮아가는 구조가 GAN의 작동 원리이다.

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.

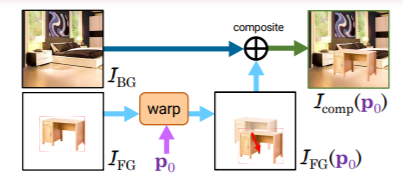
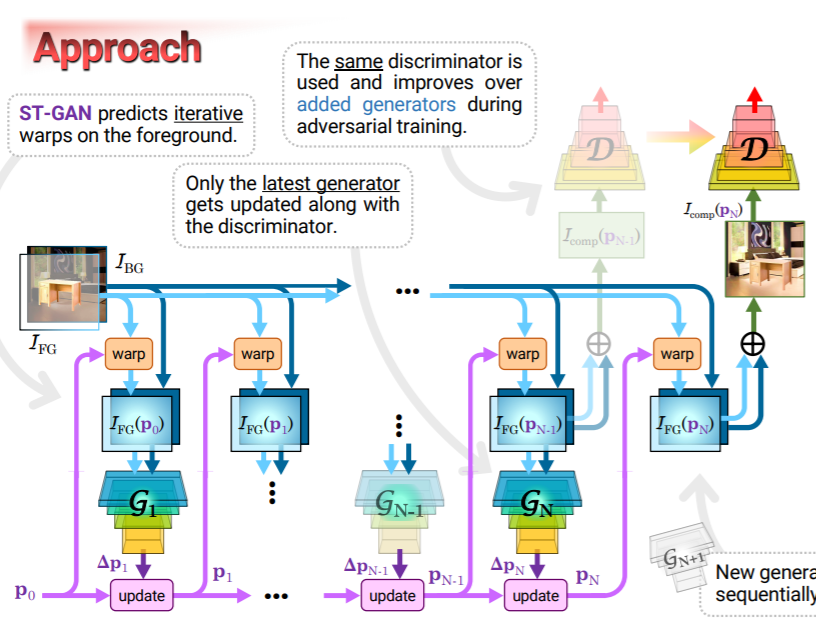
ST-GAN을 통해 canonical 형태의 face를 얻으면 stacked hourglass network를 통과시켜 face landmark가 될 가능성이 가장 높은 점들을 추출해내야 한다. 이 과정을 수행하기 위해 stacked hourglass network를 구현해 둔 오픈소스를 찾아보았다. 그 결과는 아래와 같다.

<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.

**최종 정리 결과물**

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| --- | --- |
| **초반(1~2주차)** | 연구 주제, 담당 교수님 선정 |
| **3주차** | 수행계획서 제출, face dataset 구축, face recognition 관련 알고리즘 서칭, ST-GAN 오픈소스 서칭 후 돌려보기 |
| **4주차** | face dataset 구축(3주차에 이미 완료), ST-GAN 구축 진행, ST-GAN 학습시키기 위한 gpu 대여, docker 환경 설정 |
| **5주차** | ST-GAN 구축 |
| **6주차** | ST-GAN 구축, hourglass network 오픈소스 찾기 |
| **7주차** | ST-GAN 구축, hourglass network 오픈소스 찾기, hourglass network train을 위한 dataset 구축 |

3주차에는 CelebA에서 총 202,599장의 얼굴 사진이 담긴 dataset을 다운로드하고 ST-GAN을 돌리기 전 전처리를 진행하였다. Trainset과 Testset을 나누었고 이 과정에서 메모리와 저장 공간 문제가 발생하였다.

4주차에는 3주차에 발생했던 메모리와 저장공간 문제를 해결하기 위해 학교의 GPU 서버를 빌렸고 docker container로 서버를 사용하라는 학교 지침에 따라 docker 환경을 세팅하는 작업을 진행하였다. 또한 대용량 파일 업로드 허가를 받고 서버에 dataset을 옮겨주고 docker를 돌릴 때 volume을 attach하여 사용할 수 있는 설정도 진행하였다.

Docker hub : <https://hub.docker.com/search?q=guswlsapdlf%2Fstgan&type=image>

5주차에는 ST-GAN을 학습시켜 안경을 합성한 결과를 얻었다. 이제 이 안경을 합성하는 결과를 응용하여 alignment, scaling, rotation이 진행되는 얼굴 사진을 얻는 방법에 대해 생각해보았다.

6주차에는 ST-GAN에 학습하기에 앞서 GAN 구조를 학습하였다. Canonical face를 output으로 산출하는 오픈소스인 줄 알았으나 CelebA dataset의 real image를 바탕으로 noise vector로부터 가상의 얼굴을 만들어내는 오픈소스였다. 이 GAN을 돌리는 데 putty의 연결 문제가 발생하여 connection 설정을 수정하고 docker를 daemon 모드로 돌려 해결하였다. 추가적으로 원래대로의 계획에 맞추고자 hourglass network 오픈소스를 찾아 두었다. ST-GAN을 돌리고 나면 바로 hourglass network로 결과를 낼 수 있게 하여 계획에 차질이 없도록 진행하고자 한다.

7주차에는 ST-GAN 구조와 원리를 찾아보며 4주차의 안경 합성 오픈소스를 응용해서 사용할 수 있는지에 대해 생각해 보았다. 4주차의 오픈소스는 CelebA 내부의 안경을 쓴 사진을 따로 모아 real image로 사용하였고 안경을 쓰지 않은 사람들의 얼굴에 안경 arrray를 위치에 상관없이 합성하여 fake image로 사용하고 있다. 학습은 다음의 과정을 통해 이루어진다. 안경을 쓰지 않은 사람의 사진 위에 합성된 안경을 얼굴의 크기에 맞게 scaling, rotation 등의 변형을 주어 real image에 점점 가까워지는 방향으로 학습이 이루어진다.

이 오픈소스를 이용하려면 CelebA의 dataset에서 canonical 사진인 것과 canonical 상태가 아닌 사진을 나누는 전처리를 진행해주어야 한다. 이 부분에서 시간이 너무 소요될 수도 있을 것 같아 이대호 교수님의 말씀대로 8주차에는 다른 GAN 구조(faceID GAN, Star GAN 등)의 오픈 소스를 찾아보는 방향으로 우선 진행할 계획이다. 이후 hourglass network로 face landmark 점들이 될 가능성이 높은 점들을 찾고 face dictionary 구축을 진행한다.