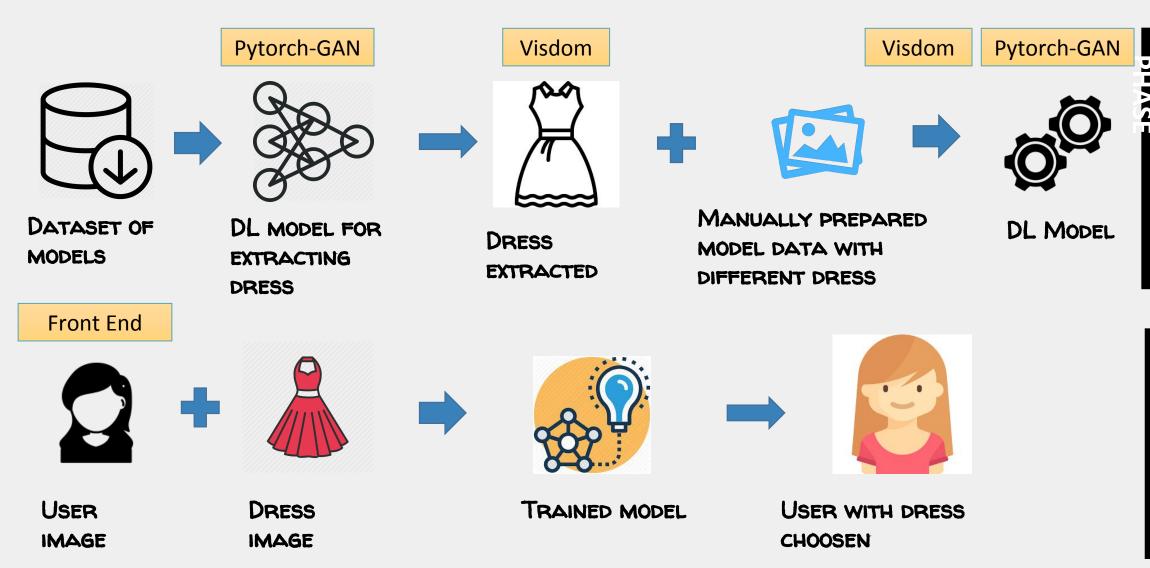


WHAT IS VIEWU?

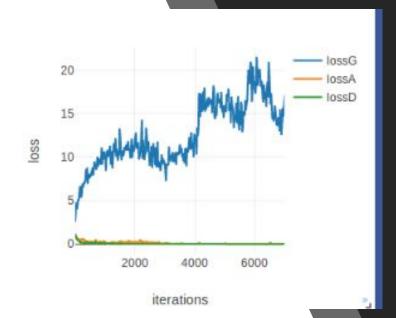
- THIS IS AN AUTOMATED TOOL THAT
 CAN ENABLE USER TO HAVE A VIEW
 OF HIM/HER ON THE DRESS HE
 SELECTED
- X IT A CONDITIONAL IMAGE GENERATION MODEL
- * THIS MODEL TRANSFERS INPUT
 DOMAIN TO A TARGET DOMAIN IN
 SEMANTIC LEVEL AND GENERATES
 THE TARGET IMAGE IN PIXEL LEVEL



SOLUTION PIPELINE

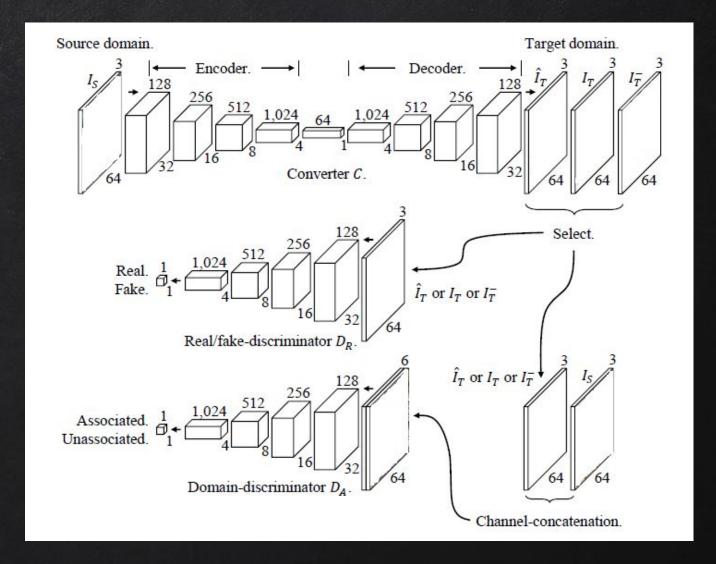


ALGORITHM

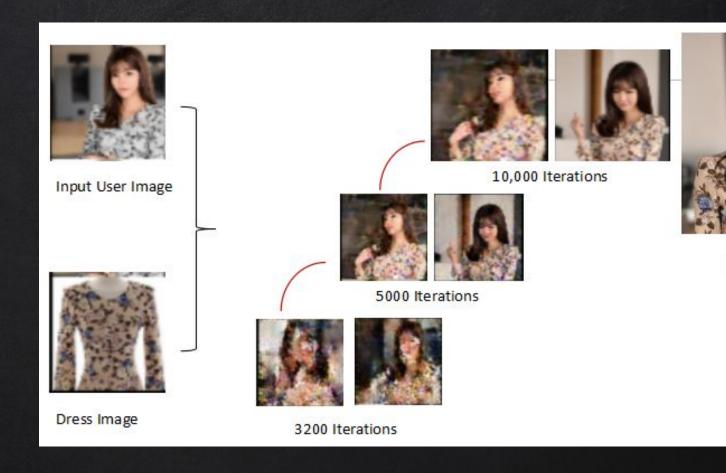


- X INPUT DATA: TWO SOURCE IMAGES AND ONE TARGET IMAGE
- X NETWORKS USED:
 - DOMAIN DISCRIMINATOR THIS TAKES A PAIR OF SOURCE AND TARGET AND IS TRAINED TO IDENTIFY IF INPUT PAIR IS ASSOCIATED OR NOT (PENALIZES TARGET IRRELEVANT TO SOURCE)
 - REAL/FAKE DISCRIMINATOR PENALIZES UNREALISTIC
 TARGET
 - CONVERTER PRODUCE REALISTIC IMAGES FROM INPUT VECTOR
- ➤ PROCESS: AT FIRST WE TRAIN DISCRIMINATORS TO REDUCE LOSS, THEN WE FREEZE THE UPDATED DISCRIMATOR PARAMETERS AND OPTIMIZE THE CONVERTER PARAMETER
- X OUTPUT DATA: Two IMAGES OF MODEL IN CHOOSEN DRESS

ARCHITECTURE



GLIMPSE OF
OUTPUT
GENERATED AT
VARIOUS
ITERATIONS



Expected Image

after 1M Iterations

FEATURES

- WILL AUTO GENERATE
 REALISTIC IMAGES
- * THE OUTPUT WILL BE IN MULTIPLE POSES
- X TARGET IMAGES ARE
 GENERATED IRRESPECTIVE
 OF SIZE, SKIN TONE
- * HIGH QUALITY IMAGES
 ARE GENERATED

PRODUCT DETAILS

BENEFITS

- X No more waiting in Long Queues
- NO MORE IMAGINATION
 OF ANY PRODUCT ON YOU
 (WE ARE MAKING IT REAL
 ;D)
- X SAVE BIG ON COSTS
- X LESS TIME TO GET TARGET OUTPUT
- ★ HIGH RESOLUTION TARGET IMAGES ARE GENERATED

TECHNOLOGY USED

- * PYTORCH
- * OPENCV
- * VISDOM
- * TENSORBOARD

ACCURACY

* This is still under training. The target images are generated as expected but with less resolution

COMPLEXITY AND FUTURE WORK

- * GENERATING REALISTIC IMAGES IS
 CHALLENGING AS IMAGE ITSELF IS HIGH
 DIMENSIONAL AND HAS COMPLEX
 RELATION BETWEEN PIXELS
- THE INPUT AND OUTPUT DOMAIN ARE DIFFERENT AND PIXEL LEVEL TARGET IMAGE GENERATION IS DIFFICULT
- * FUTURE WORKS INCLUDE SIZE

 RECOMMENDATION, STYLE

 RECOMMENDATIONS FOR THE DRESS

 SELECTED BY USER ACCORDING TO HIS SKIN

 TONE, SIZE, TASTE, BRANDS HE LIKE ETC
- CURRENTLY THIS WORKS FOR LIMITED SET OF FASHION IMAGERY WHICH WE CAN EXTEND IF WE HAVE TRAINING DATA

