



Only You

(Automatic Face Replacement Service for portrait rights protection using FaceNet and cycleGAN)

Team B

Project Service Flow

1

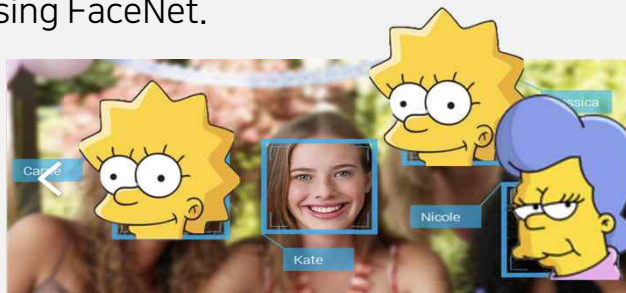
Users set their default picture for their user profile and upload a picture.

2



We detect humans' faces in given picture using face recognition and recognize the known face which is featured with the default picture using FaceNet.

3



We give them back a revised picture that unknown faces in the picture are replaced with simpson-like faces using cycleGAN.

4

This web service is developed by Django with MySQL database and is contained as a Docker Image to deploy to Internet.

Project Impact

This project will keep everyone's portrait rights interestingly.

Collaboration

Yunho Jung	Team Leader, Data collection, preprocessing and modeling
Hyunjae Lee	Web development
Seungjin Lee	Web development
Younwoo Roh	Data collection and preprocessing

Reference

<https://github.com/davidsandberg/facenet>
<https://github.com/xhujoy/CycleGAN-tensorflow>
<https://www.kaggle.com/kostastokis/simpsons-faces>
<https://github.com/NVlabs/ffhq-dataset>