

Unit Name: Artificial Intelligence

Lecturer: Hamid Reza Shahbazkia

Group ID: 22-305

Student ID: 230127

Submission date: 01.01.2024

I have tried to copy mouse movements from copy.png to paste.mp4 but after many tries I could not do it but I was able to copy mouse movement highlighted in green line and show it in its exact position but inside the copy.mp4 video with the help of tools and products made by companies such as openai.

I also tried to copy lip's movements and apply it to img.png, but all I could do is to cut some parts of the mouse and paste it inside the image, again with the help of some tools.

As it seems bad I had other worse results so that I kept the best one. As I have make part of the code I tried to understand the idea but still do not have a full understanding of the code I have written but I can manipulate my code to change some parameters. Also I have done the task step by step first step is to find the mouse this is done by taking points from 48th till 68 th dots and the dots between these numbers means the lips and identify the movements and apply it in the video(which I have done and tested and it worked) and then apply these movements on to the second video so that one speaks what second speaks and the exact problem did not let me to finish this coursework is to delete lip's movements in the video that should be applied and apply the lip's movements of another video so that output.mp4 includes first person saying what second person says in the second video which is paste.mp4.

I have got two python files which are main.py where if we run it we will get output.mp4 file which has got mouse movements of second.mp4 on the first.mp4.

I also have asdf.py file where if we run we get output.mp4 file where mouse movements of paste.mp4 file is cut and pasted into the file.

I also used model named shape\_predictor\_68\_face\_landmarks.dat to identify specific parts of the face and do manipulation on it.

In the requirements morphing or copying just the piece of the video is not asked but copying movements of lips and appying those to another video is asked but after spending hours this was the result I came up with.

## References

Dlib Library. (Year). shape\_predictor\_68\_face\_landmarks.dat. [Dataset]. Available from: [LINK](#).