

# Digital Makeup

## Using Machine Learning Algorithms

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### Makeup Transfer Examples



Source Image



Target Image

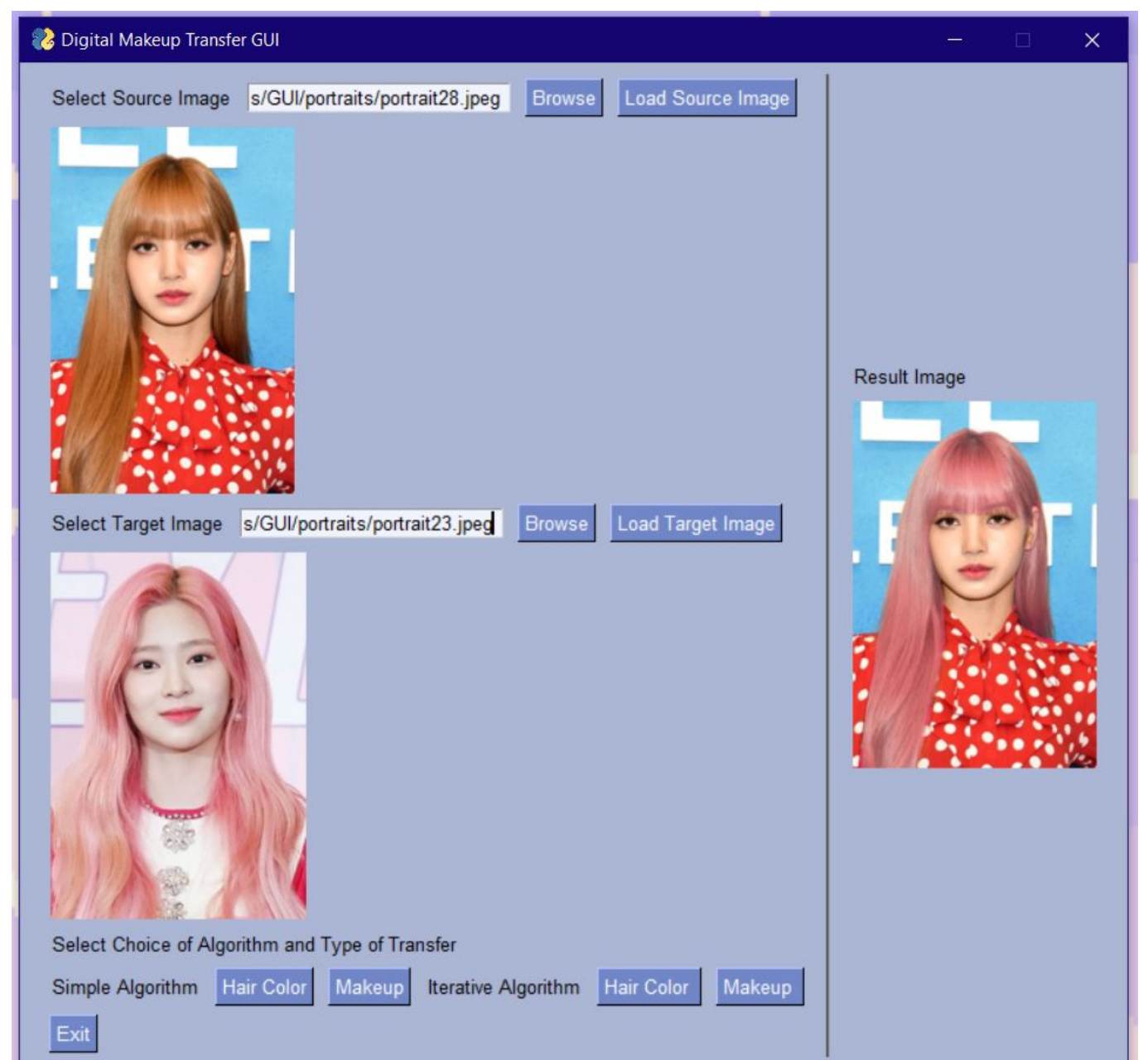


Result Images

### Project Objectives:

In this project, a digital makeup algorithm is created using machine learning algorithms to allow users to digitally apply makeup to their portrait images. Users are able to select their choice of images and utilise this algorithm to transfer makeup or hair colour from a target image to a source image. Additionally, a Graphic User Interface (GUI) is also created. This aims to reduce the amount of time and effort needed for users to polish facial images.

### Digital Makeup Transfer GUI



#### Types of Transfer:

- Hair Colour Transfer
- Makeup Transfer

#### Types of Algorithm:

- Simple Algorithm
- Iterative Algorithm