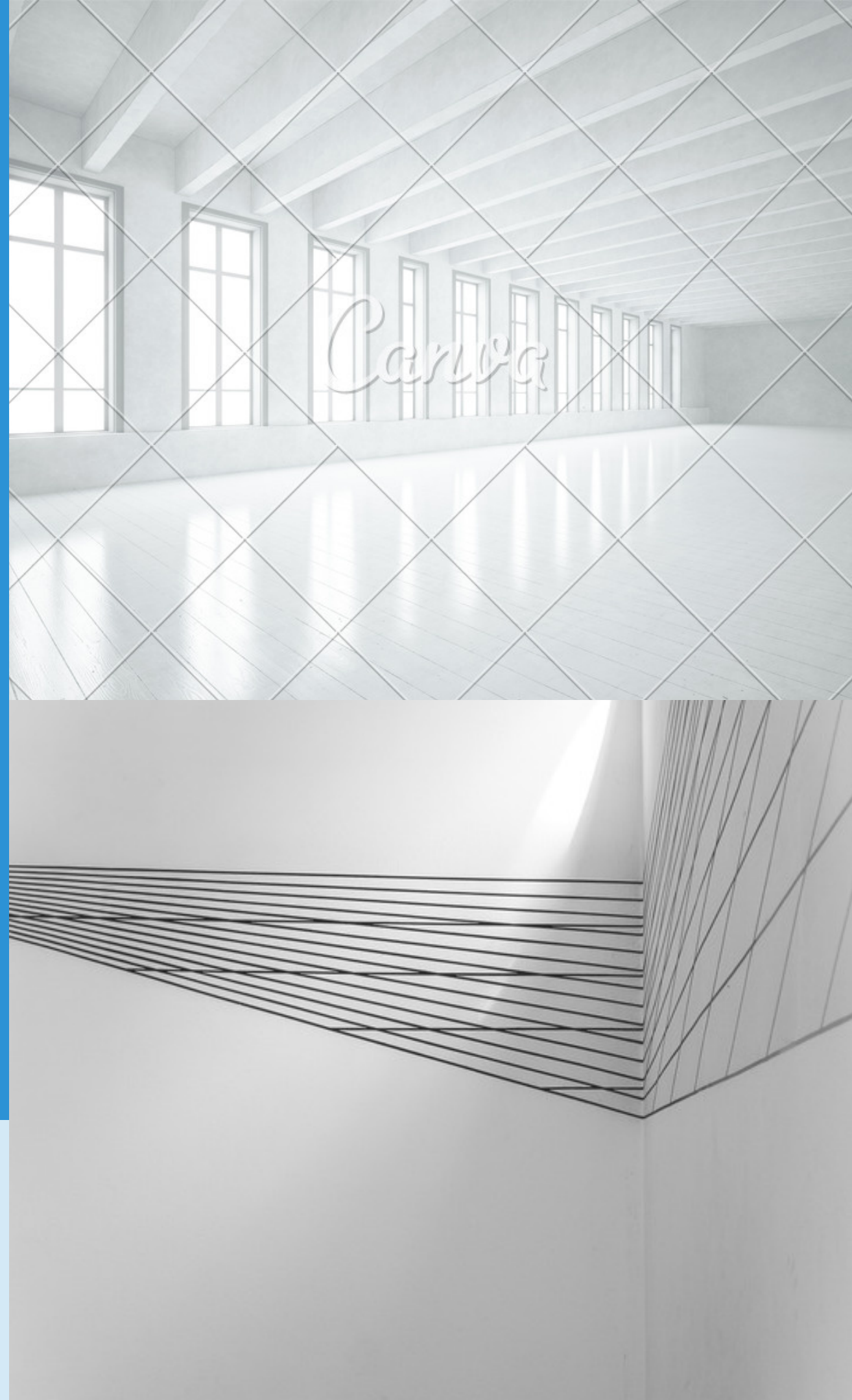


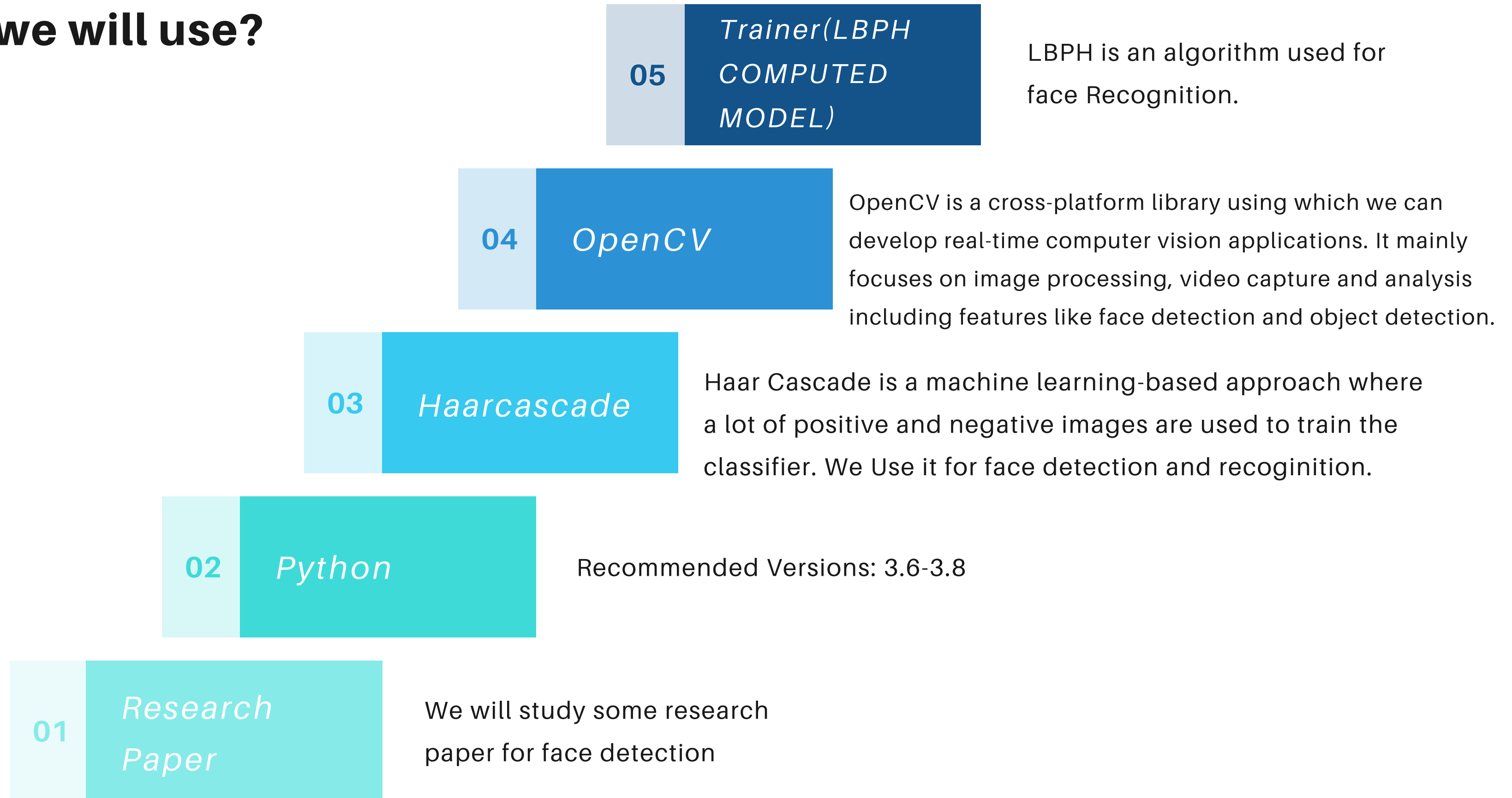
Face Detection and Recognition

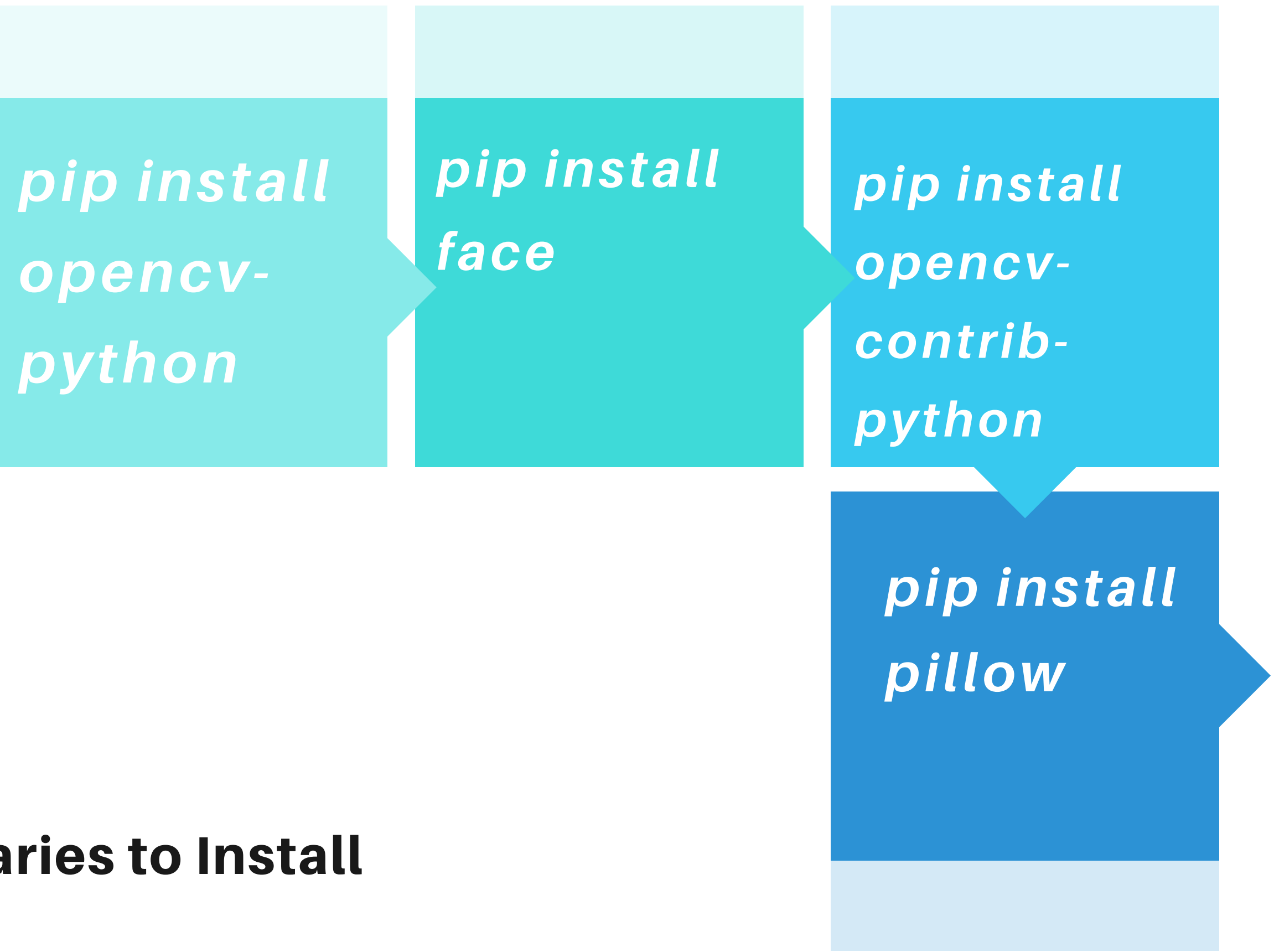
ANJALI SINGH



BY OPENCV

What we will use?





```
pip install  
opencv-  
python
```

```
pip install  
face
```

```
pip install  
opencv-  
contrib-  
python
```

```
pip install  
pillow
```

Libraries to Install

LBPH FACE RECOGNIZER ALGORITHM

- The Local Binary Pattern Histogram(LBPH) algorithm is a simple solution on face recognition problem, which can recognize both front face and side face.
- In this Project, we will use the pre-trained model stored in the form of .yml file

HAARCASCADE

- Haar Cascade is a Machine Learning Object Detection Algorithm used to identify in an image or video.
- In this project we will use Haarcascade Frontal Face detection to detect faces in the image.

Resources



Face detection By OpenCV Documentation

https://docs.opencv.org/3.4/db/d28/tutorial_cascade_classifier.html



Github

<https://github.com/informramiz/Face-Detection-OpenCV>



<https://www.udemy.com/course/building-a-face-detection-and-recognition-model-from-scratch/learn/lecture/21094260?start=675#overview>



LBHP Face Recognition

<https://towardsdatascience.com/face-recognition-how-lbph-works-90ec258c3d6b>



Refer documentation of OpenCV for anything

WHAT SHOULD BE OUR NEXT STEP ?



*Studying
Research Paper*

Face Detection
or
for next step in the
project



*Understanding
Haarcascade and
LBPH ALGO*



ML Algorithms
Mathematics
behind ML and
Neural Networks



*Understanding
OpenCV*

THANK YOU!

