

Goal

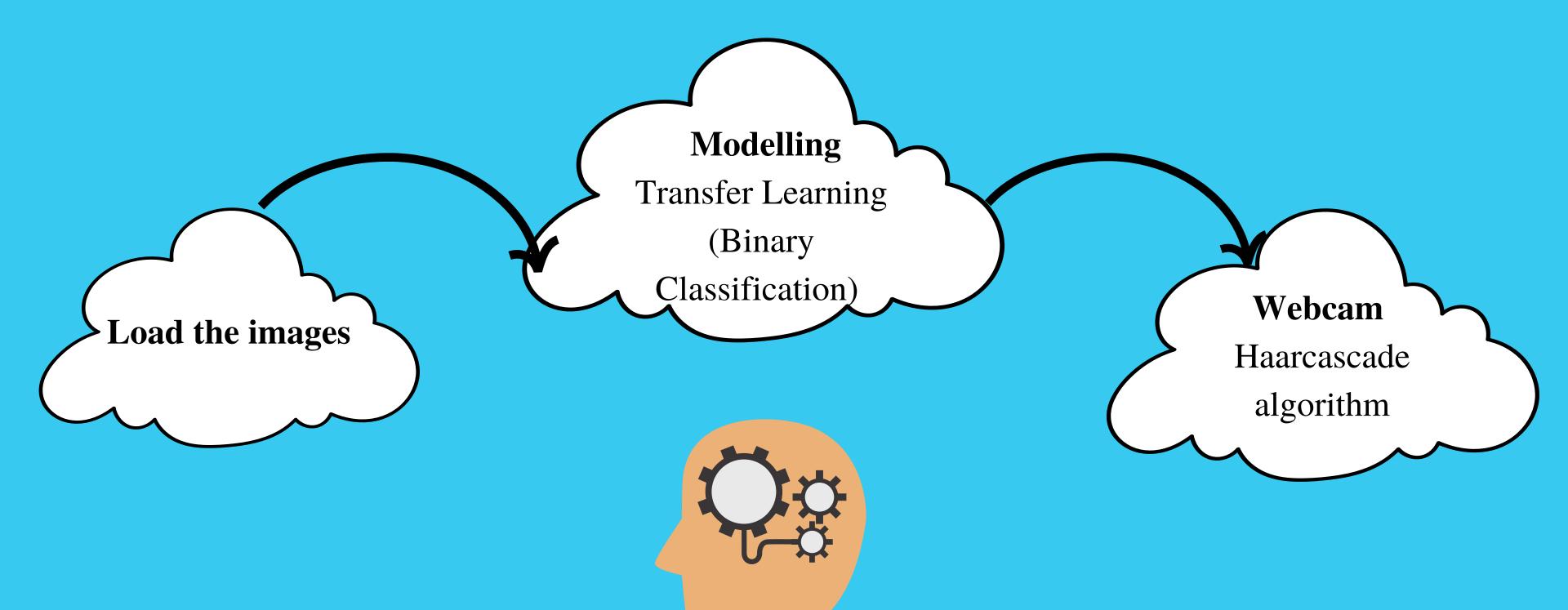
• Labelled two classes (open&closed), based on the eyelid-closure

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Sleepy (eyes closed consistently)
Active (eyes open consistently)
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Signs of Drowsiness:

- Difficulty keeping eyes open
- Yawning
- Frequent blinking
- Difficulty concentrating
- Swerving out of the lane and delayed reaction to traffic
- Nodding

Mind Map



Tools

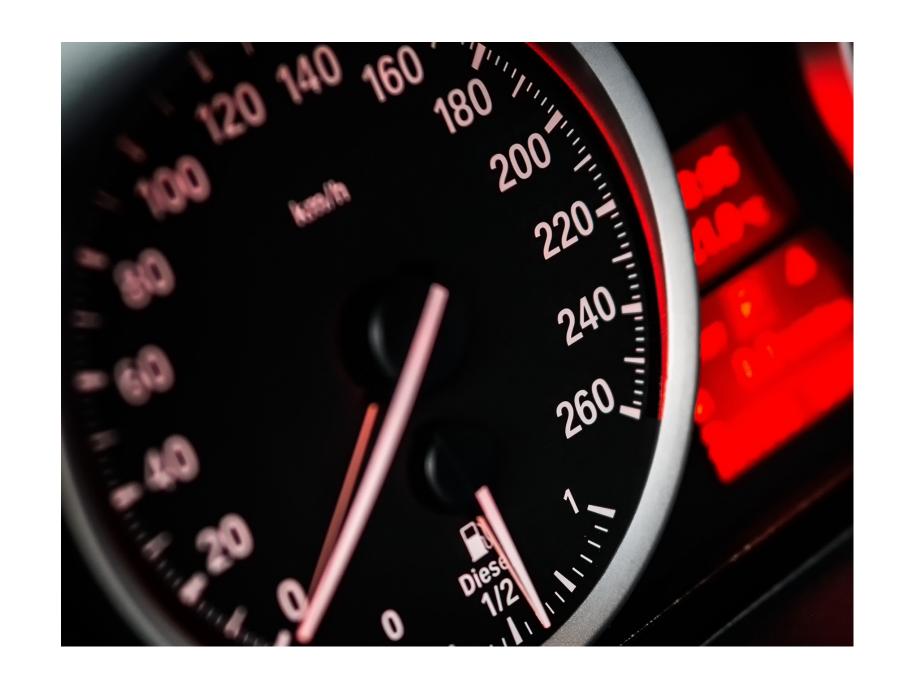
- Anaconda
- Package of multiple libraries

IDEs

- Jupyter notebook
- VSCode

Libraries

- Tensorflow
- Opency
- Numpy
- Pygame



Transfer Learning

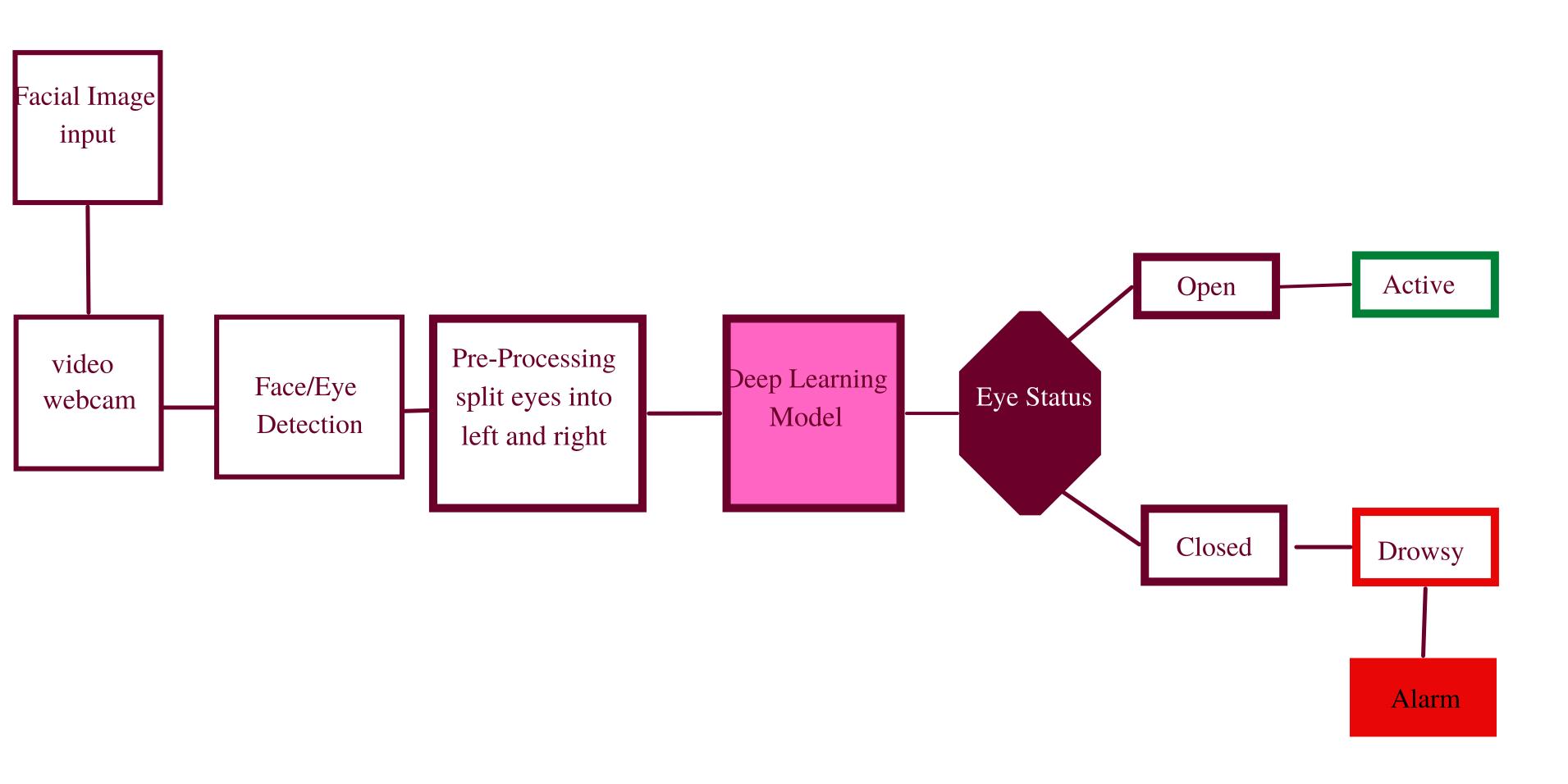
• Takes weights and architecture of pre-trained network

• Learns from previous training images

Nature of the problem should be the same

• Use last fully connected (FC) layer

Flowchart



DRIVE SAFELY

SLEP WITH YOUR LOVED ONES

THANK YOU VERY MUCH FOR YOUR ATTENTION

