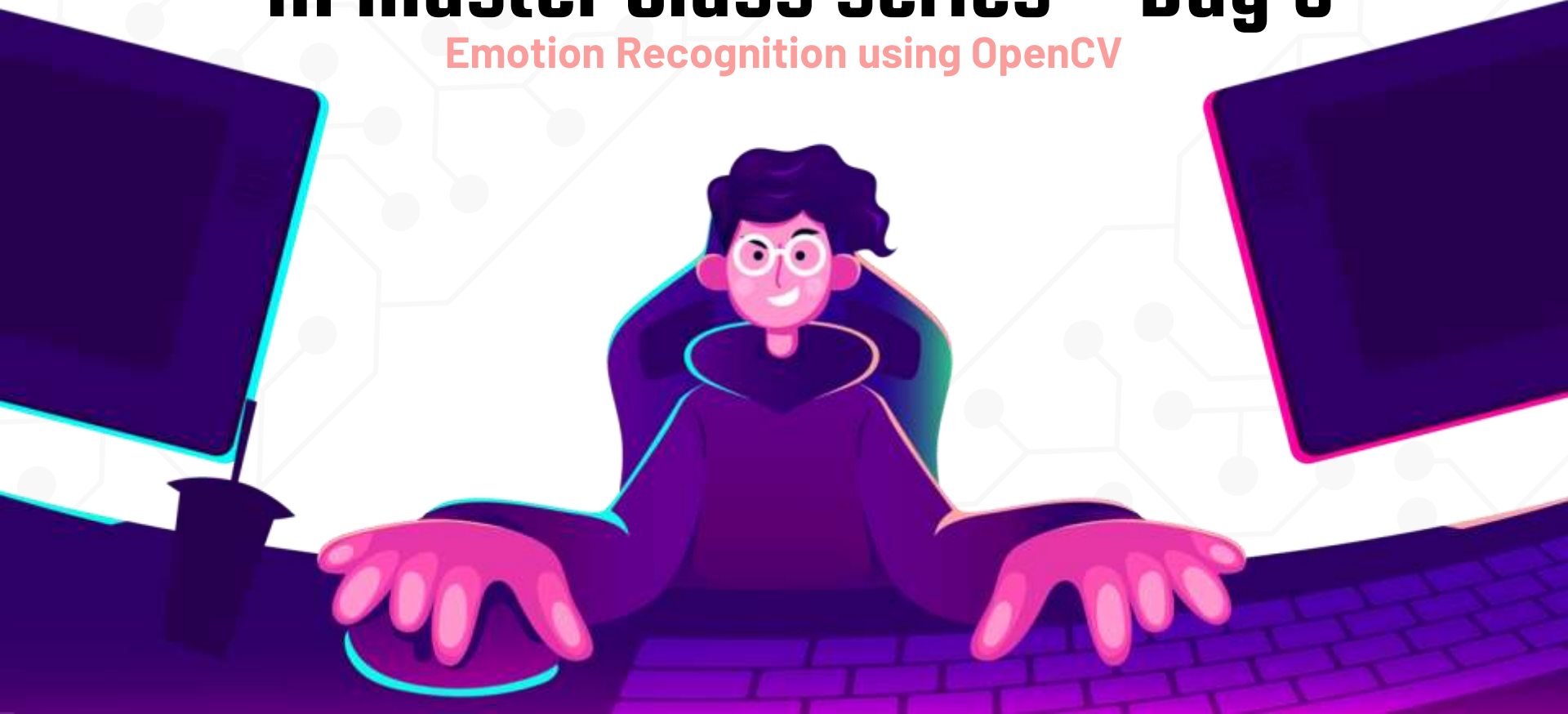# AI Master Class series — Day 8

Emotion Recognition using OpenCV

Day-8 Agenda.

01.

Face emotion recognition

Face emotion recognition & its application

02.

Overview on Libraries used

Face recognition library

03.

Face emotion recognition

Real-time face emotion recognition

Installing Libraries

pytorch: pip3 install --find-links
https://download.pytorch.org/whl/torch_stable.html
torch==1.3.1 torchvision==0.4.2

Installing Libraries

Facial Emotion recognition: pip install facial-emotion-recognition

```
Successfully built facial-emotion-recognition
Installing collected packages: facenet-pytorch, facial-emotion-recognition
Successfully installed facenet-pytorch-2.5.0 facial-emotion-recognition-0.3.3
```

Configuring Torch for CPU

./site-package/torch/serialization.py

Change:

```
def load(f, map_location=None, pickle_module=pickle, **pickle_load_args):
```
to
```
def load(f, map_location='cpu', pickle_module=pickle, **pickle_load_args):
```

Face emotion recognition.

Facial emotion recognition is the process of detecting human emotions from facial expressions. The human brain recognizes emotions automatically, and software has now been developed that can recognize emotions

AI can detect emotions by learning what each facial expression means and applying that knowledge to the new information presented to it. Emotional artificial intelligence, or emotion AI, is a technology that is capable of reading, imitating, interpreting, and responding to human facial expressions and emotions.

Practical session

Face Emotion Recognition

```python
from facial_emotion_recognition import EmotionRecognition
import cv2

emRec = EmotionRecognition(device='cpu')
cam = cv2.VideoCapture(0)

while True:
    success, frame = cam.read()
    frame = emRec.recognise_emotion(frame, return_type='BGR')
    cv.imshow('frame', frame)
    key = cv2.waitKey(1)
    if key == 27:
        break

cam.release()
cv2.destroyAllWindows()
```

Sept – 2020

Google returns to using human YouTube moderators after AI errors

- Google is returning to using humans for YouTube moderation after repeated errors with its AI system.

- Moderating a large network like YouTube is no easy task. Aside from the sheer volume of content uploaded every day, moderators are subjected to the worst of humanity and often end up

Thanks!

Do you have any questions?
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Tomorrow session

Introduction to Deep Learning | How to install DL Libraries