FaceEmotionDetection

Python version: 3.11.5

Libraries to be Installed:

- 1. Tensorflow
- 2. Keras
- 3. Numpy
- 4. cv2
- 5. matplotlib
- 6. kagglehub

Training the model:

1. ResEmoteNet: Upload the resnet.py file to runtime and run the below script:

Please check the google colab project for training:

https://colab.research.google.com/drive/1PvPrwPL8w82mkmihlireZlO20ICFPn8S?usp=s haring

2. CNN: Please check the google colab project for training

steps: https://colab.research.google.com/drive/1Bkd wH GKzl6hkiD9g-

kaFKuoZ EfA?usp=sharing

Real time Execution steps:

1. Download the trained models(.keras) files from given links:

ResEmoteNet: https://drive.google.com/file/d/1CDnEuKahgFqQLhi5hwE7P7qcJUO56ryM/view?usp=drive-link

CNN:

https://drive.google.com/file/d/1IBOyIL6VKpqfycADeLCcKXuN5dCin7eY/view?usp=drive link

2. Replace the name of the model in real time test.py:

print("loading model..")

name= "download_trained_model.keras" //Give the name of the downloaded trained model

model = load model(name)

print("Loaded model from disk")

3. Execute the script using:

\$ python3 real time test.py

loading model..

Loaded model from disk

Enter mode (live/video): video

Enter input video file path: input test3.mp4

Output files are included in the zip