

Facial Detection Project

Setup Instructions:

1. Clone the repository to your local machine.

2. Import:

- Cv2 library
- Tensorflow
- From tensorflow.keras.applications import ResNet50V2
- From Tensorflow.keras.layers import Conv2D, Dense, Flatten
- From tensorflow.keras.models import Model
- From tensorflow.keras.preprocessing import image
- From tensorflow.keras.applications.resnet_v2 import preprocess_input

cv2 library to notebook

3. Download dataset and make sure it's in 'Assignment2' directory

4. Ensure that your Python environment is correctly configured.

Issue Log:

- **Issue 1:** Predicted confidence score is sometimes low
 - **Resolution:** Experimented with different images. Realized that it is dependent on certain images when we are using the same model to predict for multiple images

Additional Notes:

- This project uses ResNet50V2 for object detection and visualization.
- Ensure that the 'Dataset' directory contains sample images and videos for testing the model.