Exam Project | Face Detector

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Package Imports

```
import cv2
import math
from matplotlib import pyplot as plt
```

Module Imports

```
import sys
sys.path.append('../')
from FaceDetector import FaceDetector
from Utilities import Displayer
```

Face Detection

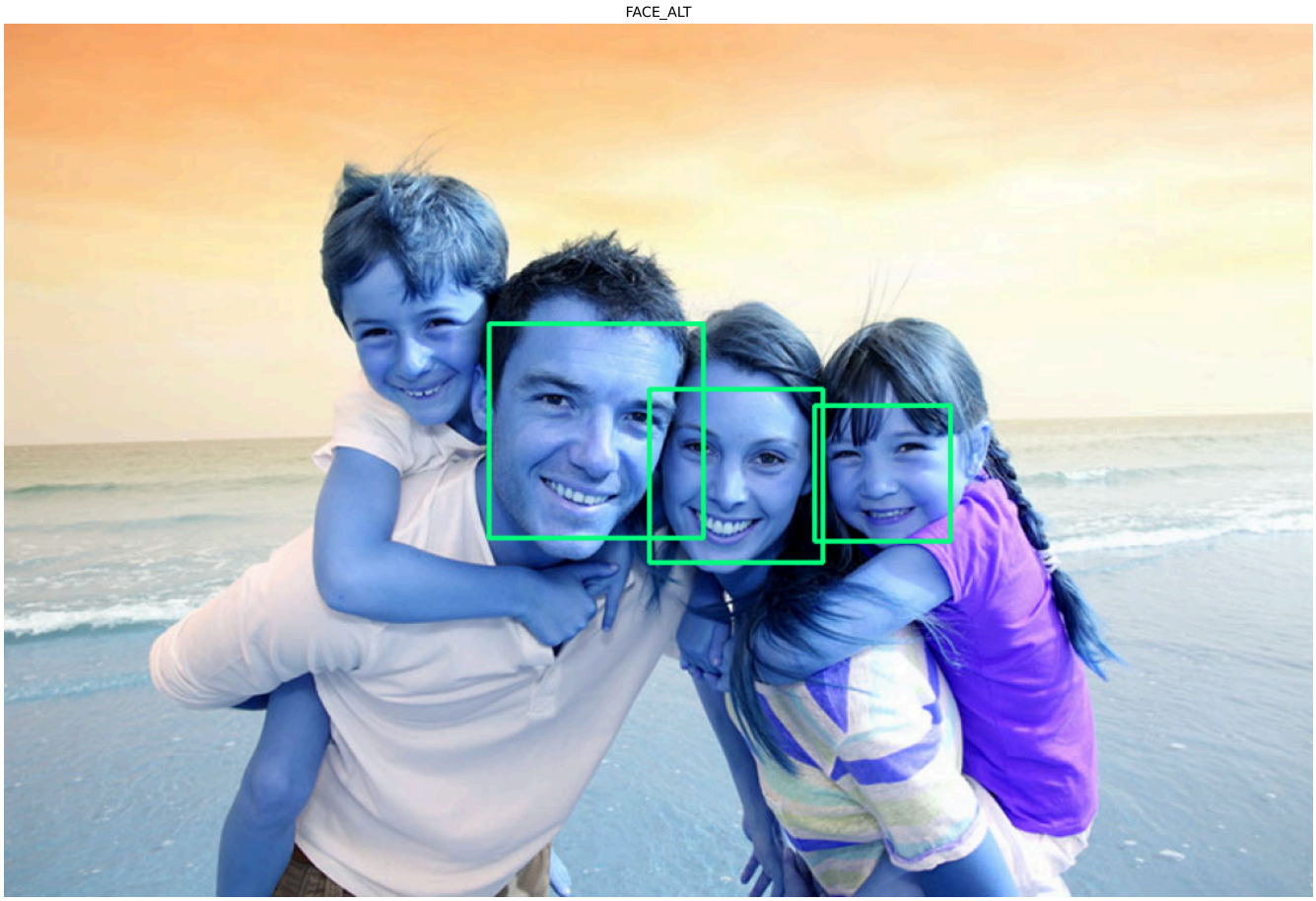
```
image_path = '../data/identification1.jpg'
image = cv2.imread(image_path)

alt_detector = FaceDetector('FACE_ALT_NB')
alt2_detector = FaceDetector('FACE_ALT2_NB')
default_detector = FaceDetector('FACE_DEFAULT_NB')

alt_marked_image = alt_detector.mark_all(image.copy())
alt2_marked_image = alt2_detector.mark_all(image.copy())
default_marked_image = default_detector.mark_all(image.copy())
```

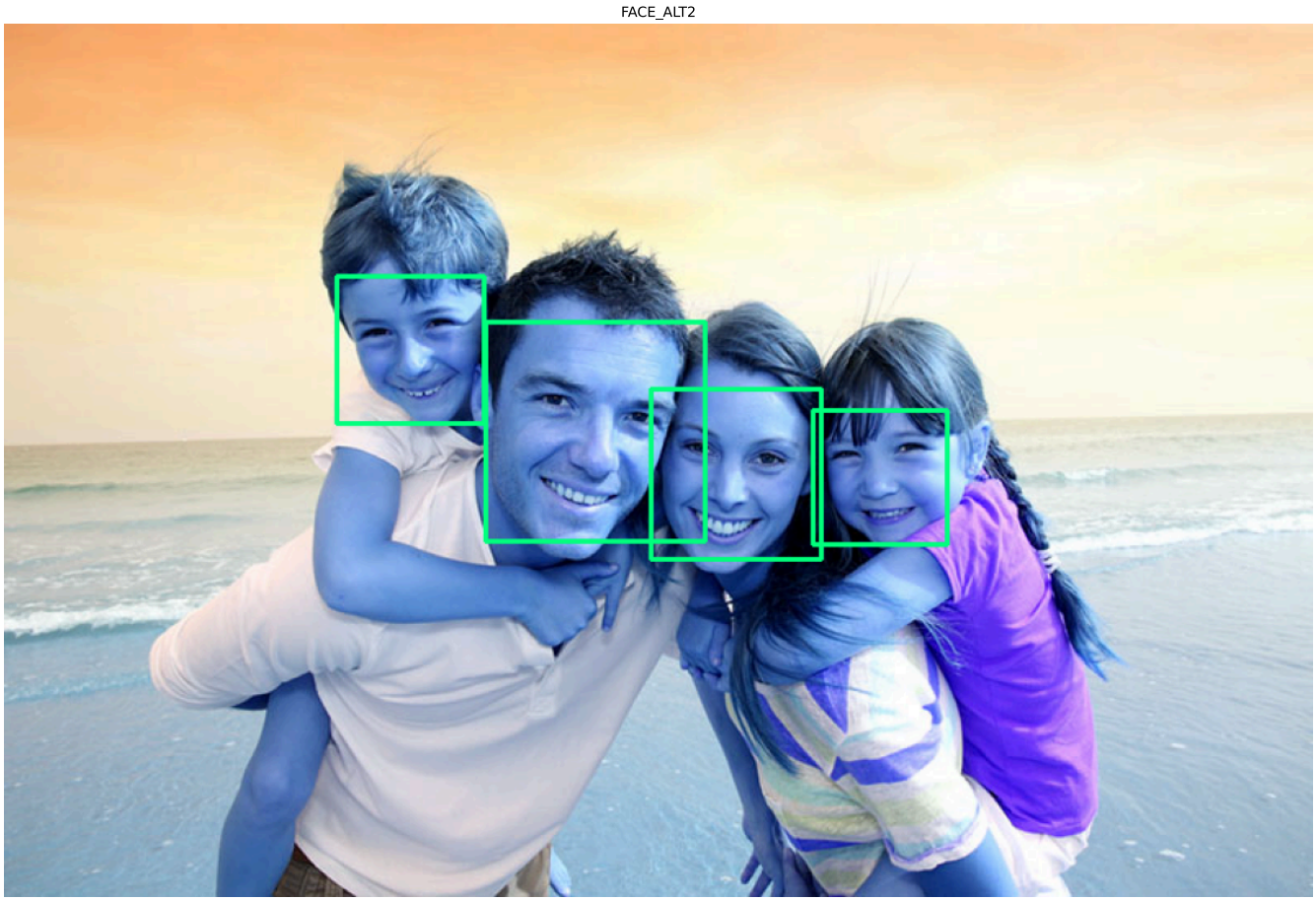
Display FACE_ALT Detection

```
plt.figure(figsize=(20,20))
plt.title('FACE_ALT')
plt.axis("off")
plt.imshow(alt_marked_image)
plt.show()
```



Display FACE_ALT2 Detection

```
plt.figure(figsize=(20,20))
plt.title('FACE_ALT2')
plt.axis("off")
plt.imshow(alt2_marked_image)
plt.show()
```



Display FACE_DEFAULT Detection

```
plt.figure(figsize=(20,20))
plt.title('FACE_DEFAULT')
plt.axis("off")
plt.imshow(default_marked_image)
plt.show()
```