task-9-2-nasa-face

February 16, 2024
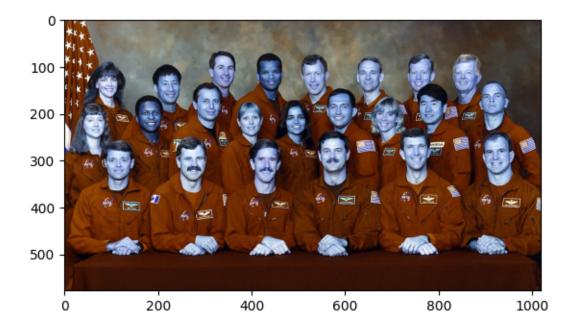
Task 9.2 | 65011428 Papinwich Asnapetch

```python
[69]: import cv2
      from matplotlib import pyplot as plt
      import numpy as np
```

```python
[70]: # Load Image
      img = cv2.imread('NASA.jpg')
      img_gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

      plt.imshow(img)
```

[70]: <matplotlib.image.AxesImage at 0x1c4072b5850>


```python
[71]: # Load haarcascade
      faceCascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')
```

```python
# Detects face
faces = faceCascade.detectMultiScale(img_gray,
                                     scaleFactor= 1.2,
                                     minNeighbors= 10,
                                     minSize= (10, 10))

# Draw rectangle around face
for x, y, w, h in faces:
    cv2.rectangle(img, (x, y), (x+w, y+h), (0, 255, 0), 2)

# Display
plt.imshow(img)
```

[71]: <matplotlib.image.AxesImage at 0x1c407327760>