

```
In [18]: import numpy as np
```

```
In [19]: import matplotlib.pyplot as plt # visualisation lib
```

```
In [20]: from PIL import Image
```

```
In [21]: feature_image = Image.open(r'/Users/sasidharbhagavatula/desktop/Biimedia_feature_image
```

```
Out[21]:
```



```
In [22]: print(type(feature_image))
```

```
<class 'PIL.PngImagePlugin.PngImageFile'>
```

```
In [23]: print(type(Image))
```

```
<class 'module'>
```

```
In [24]: fea_arr = np.asarray(feature_image)
fea_arr
```

```
Out[24]: array([[[0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   ...,
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0]],

   [[0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   ...,
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0]],

   [[0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   ...,
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0]],

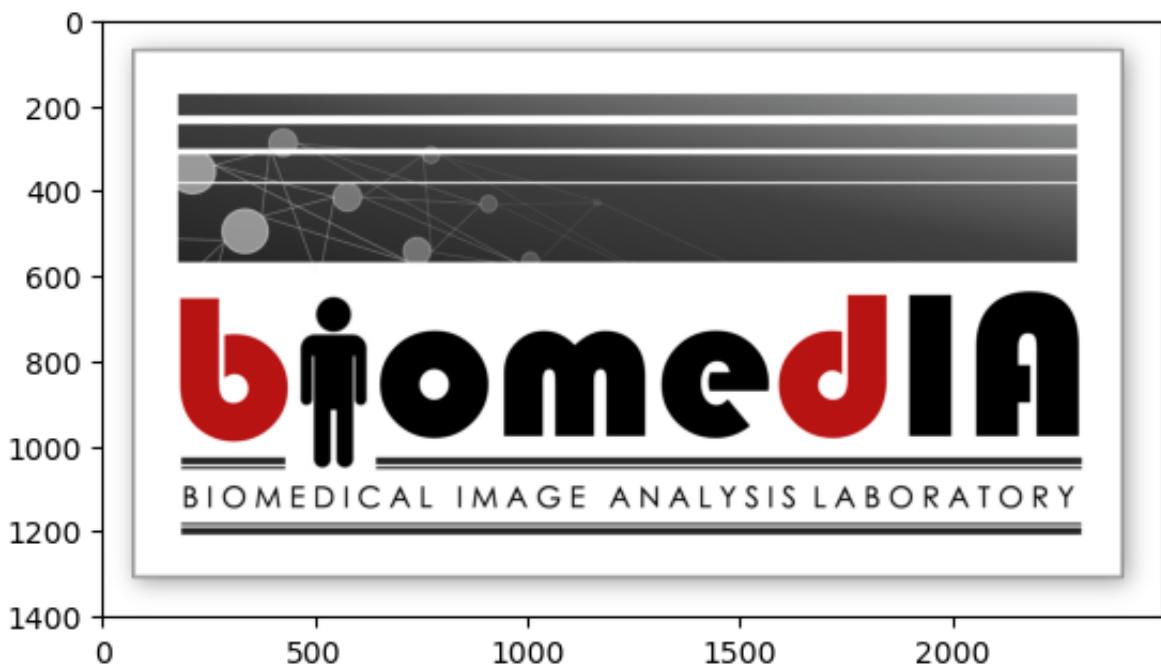
   ...,
   [[0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   ...,
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0]],

   [[0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   ...,
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0]],

   [[0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   ...,
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0]],

   [[0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   ...,
   [0, 0, 0, 0],
   [0, 0, 0, 0],
   [0, 0, 0, 0]]], dtype=uint8)
```

```
In [25]: plt.imshow(fea_arr)
plt.show()
```



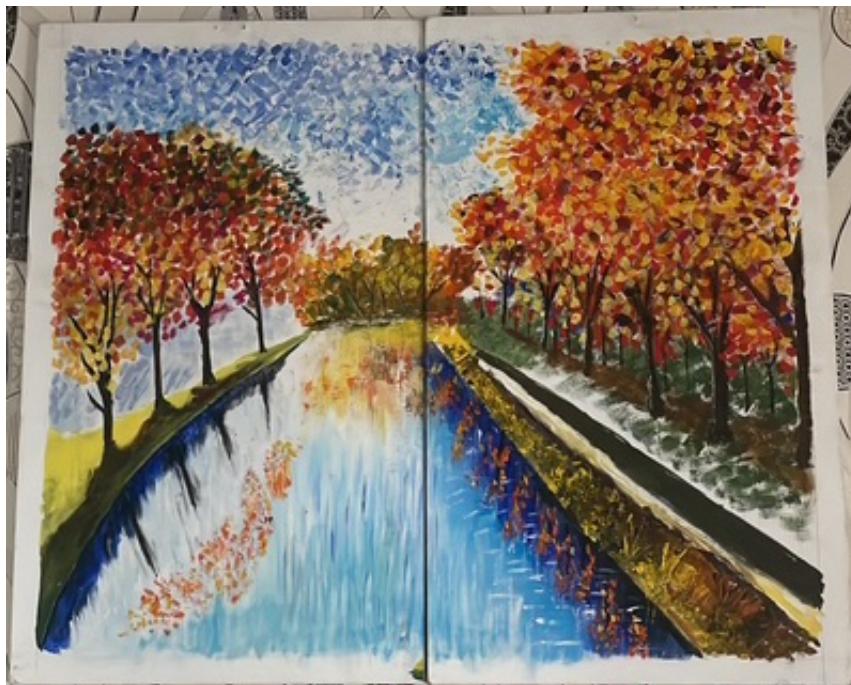
```
In [26]: fea_arr.shape
```

```
Out[26]: (1402, 2497, 4)
```

```
In [28]: #-----my paint
```

```
In [29]: my_paint=Image.open(r'/Users/sasidharbhagavatula/desktop/paint1.JPG')  
my_paint
```

```
Out[29]:
```



```
In [30]: print(type(my_paint))
```

```
<class 'PIL.JpegImagePlugin.JpegImageFile'>
```

```
In [31]: paint1_arr=np.asarray(my_paint)
paint1_arr
```

```
Out[31]: array([[[ 38,  33,  29],
   [ 93,  88,  84],
   [100,  95,  89],
   ...,
   [149, 134, 115],
   [153, 138, 119],
   [183, 168, 149]],

   [[ 70,  65,  61],
   [ 97,  92,  88],
   [ 42,  37,  31],
   ...,
   [148, 133, 114],
   [162, 147, 128],
   [158, 143, 124]],

   [[ 93,  88,  84],
   [ 47,  42,  38],
   [ 38,  33,  27],
   ...,
   [161, 146, 127],
   [180, 165, 146],
   [139, 124, 105]],

   ...,

   [[184, 180, 171],
   [162, 158, 149],
   [179, 175, 166],
   ...,
   [179, 171, 158],
   [204, 196, 183],
   [206, 198, 185]],

   [[196, 192, 183],
   [183, 179, 170],
   [130, 126, 117],
   ...,
   [188, 180, 169],
   [206, 198, 185],
   [206, 198, 185]],

   [[196, 192, 183],
   [186, 182, 173],
   [144, 140, 131],
   ...,
   [201, 193, 182],
   [201, 193, 180],
   [212, 204, 191]]], dtype=uint8)
```

```
In [32]: plt.imshow(paint1_arr)  
plt.show()
```



```
In [33]: paint1_arr.shape
```

```
Out[33]: (319, 399, 3)
```

```
In [ ]:
```