

ex7-text-recognition

August 5, 2024

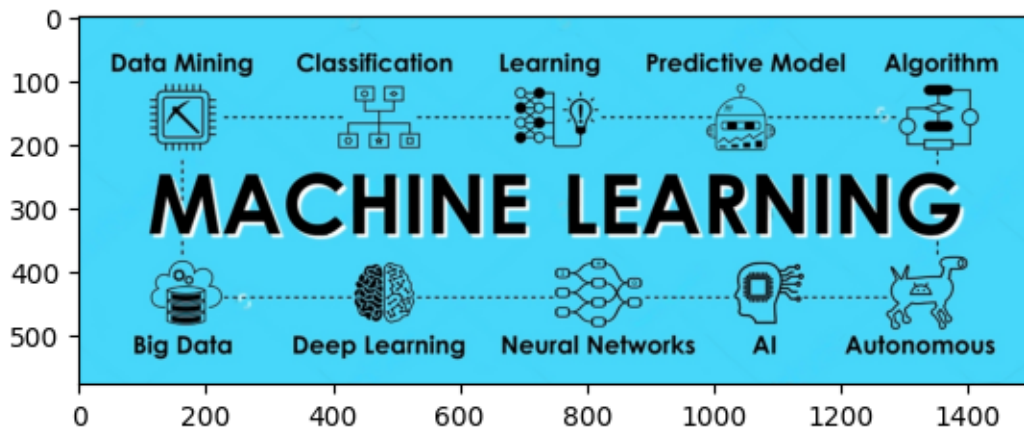
```
[1]: import cv2
      from matplotlib import pyplot as plt
      import easyocr
```

```
[2]: %%capture
      # the %%capture will suppress download progress messages
      reader = easyocr.Reader(
          ["en"]
      ) # this needs to run only once to load the model into memory
```

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[3]: IMAGE_PATH = "datasets/ocr.jpeg"
```

```
[4]: img = cv2.imread(IMAGE_PATH)
      plt.imshow(img)
```

```
[4]: <matplotlib.image.AxesImage at 0x7f5c2757b6d0>
```



```
[5]: result = reader.readtext(IMAGE_PATH)
      img = cv2.imread(IMAGE_PATH)
      for finding in result:
          top_left = tuple(finding[0][0])
          bottom_right = tuple(finding[0][2])
```

```

text = finding[1]
font = cv2.FONT_HERSHEY_SIMPLEX
img = cv2.rectangle(img, top_left, bottom_right, (0, 255, 0), 3)
img = cv2.putText(img, text, top_left, font, 1, (255, 0, 255), 2, cv2.
↳LINE_AA)

print([r[1] for r in result])

plt.imshow(img)
plt.show()

```

```

['Data Mining', 'Classification', 'Learning', 'Predictive Model', 'Algorithm',
'MACHINE', 'LEARNING', 'Big Data', 'Deep Learning', 'Neural Networks', 'AI',
'Autonomous']

```

