ex07-text-recognition

October 16, 2024
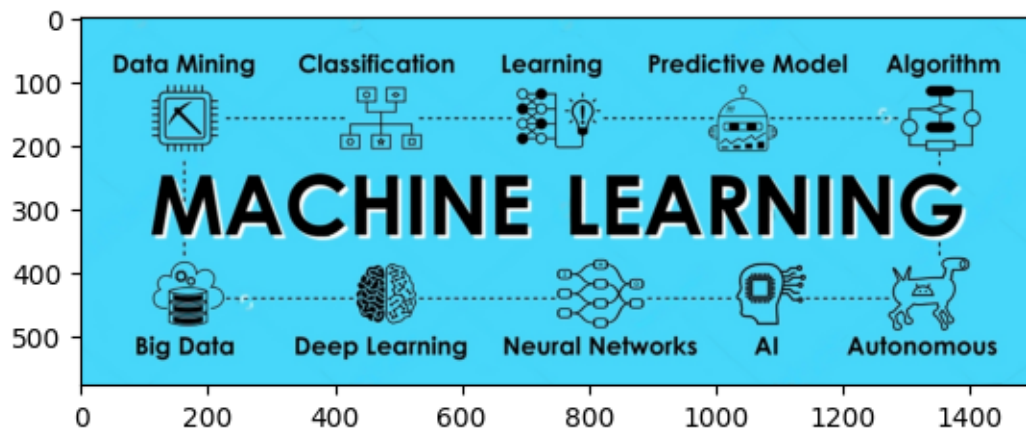
```
[1]: import cv2
     from matplotlib import pyplot as plt
     import easyocr
```

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

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

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

```
[4]: <matplotlib.image.AxesImage at 0x7f78f3d3dd50>
```



```
[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', 'Al',
'Autonomous']