#### **EMBEDDED VISION DESIGN 3**



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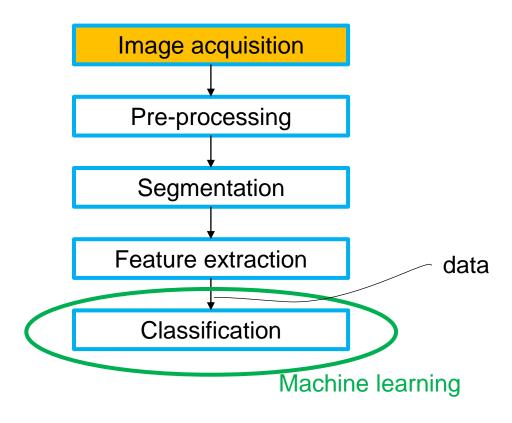
#### **OPENCY TUTORIAL**

• <a href="https://www.pyimagesearch.com/2018/07/19/opencv-tutorial-a-guide-to-learn-opency/">https://www.pyimagesearch.com/2018/07/19/opencv-tutorial-a-guide-to-learn-opency/</a>



## **CODE WALK THROUGH**

### A JUMP-START TO DATA



acquire.py

import some packages

```
import os
import time
import cv2 as cv
import numpy as np
from imutils.video import VideoStream
```

acquire.py

#### some definitions

assign categories as Unicode character integer values

```
# map the keys to their ordinal numbers
kMappings = {}
for key in mappings.keys():
         kMappings[ord(key)] = mappings[key]
```

acquire.py

open videostream

```
vs = VideoStream(usePiCamera=True, resolution=frame_size).start()
time.sleep(1.0)
```

```
while True:
       frame = vs.read()
        if frame is None:
                continue
        frame = np.rot90(frame, 3)
       cv.imshow("Frame", frame)
        k = cv.waitKey(1) & 0xFF
        if k == ord("q") or k == 27:
        elif k in kMappings.keys():
                p = os.path.sep.join([data path, kMappings[k]])
                if not os.path.exists(p):
                        os.makedirs(p)
                p = os.path.sep.join([p, "{}.png".format(
                        int(time.time()))))
                print("[INFO] saving frame: {}".format(p))
                cv.imwrite(p, frame)
```

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• acquire.py

ignore paper rock scissors hang loose