PROJECT DEVELOPMENT PHASE

SPRINT - 3

Date	**16 November 2022**
Team ID	**PNT2022TMID39919**
Project Name	**Project -VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning**

```
# Testing
# batch=1
# subdivisions=1 #
Training batch=64
subdivisions=16
width=608
height=608
channels=3
momentum=0.9
decay=0.0005
angle=0 saturation =
1.5 exposure = 1.5
hue=.1
learning_rate=0.0 1
burn_in=1000
max_batches =
500200
policy=steps
steps=400000,450
000 scales=.1,.1
[convolutional]
batch_normalize= 1
filters=32 size=3
stride=1 pad=1
activation=leaky   #
Downsample
[convolutional]
batch_normaliz e=1
filters=64 size=3
```

stride=2 pad=1
activation=leak
y
[convolutional]
batch_normaliz e=1
filters=32 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=64
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3
activation=line
ar #
Downsample
[convolutional]
batch_normaliz
e=1 filters=128
size=3 stride=2
pad=1
activation=leak
y
[convolutional]
batch_normaliz e=1
filters=64 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz e=1
filters=128 size=3
stride=1 pad=1
activation=leak y

[shortcut] from=-3
activation=line ar
[convolutional]
batch_normaliz e=1
filters=64 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=128
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3 activation=line
ar #
Downsample
[convolutional]
batch_normaliz
e=1 filters=256
size=3 stride=2
pad=1
activation=leak y
[convolutional]
batch_normaliz
e=1 filters=128
size=1 stride=1
pad=1
activation=leak y
[convolutional]
batch_normaliz e=1
filters=256 size=3
stride=1 pad=1
activation=leak y
[shortcut] from=-3
activation=line ar
[convolutional]
batch_normaliz e=1

filters=128 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=256
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3 activation=line
ar
[convolutional]
batch_normaliz e=1
filters=128 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=256
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3 activation=line
ar
[convolutional]
batch_normaliz e=1
filters=128 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=256
size=3 stride=1
pad=1

activation=leak y
[shortcut] from=-
3 activation=line
ar
[convolutional]
batch_normaliz
e=1 filters=128
size=1 stride=1
pad=1
activation=leak y
[convolutional]
batch_normaliz
e=1 filters=256
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3
activation=line ar
[convolutional]
batch_normaliz e=1
filters=128 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=256
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3 activation=line
ar
[convolutional]
batch_normaliz e=1
filters=128 size=1
stride=1 pad=1
activation=leak

y
[convolutional]
batch_normaliz
e=1 filters=256
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3
activation=line ar
[convolutional]
batch_normaliz e=1
filters=128 size=1
stride=1 pad=1
activation=leak y
[convolutional]
batch_normaliz e=1
filters=256 size=3
stride=1 pad=1
activation=leak y
[shortcut] from=-3
activation=line
ar #
Downsample
[convolutional]
batch_normaliz
e=1 filters=512
size=3 stride=2
pad=1
activation=leak
y
[convolutional]
batch_normaliz e=1
filters=256 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz

e=1 filters=512
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3
activation=line ar
[convolutional]
batch_normaliz e=1
filters=256 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=512
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3 activation=line
ar
[convolutional]
batch_normaliz e=1
filters=256 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz e=1
filters=512
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3 activation=line
ar
[convolutional]
batch_normaliz e=1

filters=256 size=1
stride=1 pad=1
activation=leak y
[convolutional]
batch_normaliz
e=1 filters=512
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3 activation=line
ar
[convolutional]
batch_normaliz e=1
filters=256 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=512
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3 activation=line
ar
[convolutional]
batch_normaliz
e=1 filters=256
size=1 stride=1
pad=1
activation=leak y
[convolutional]
batch_normaliz
e=1 filters=512
size=3 stride=1
pad=1
activation=leak y

[shortcut] from=-
3
activation=line ar
[convolutional]
batch_normaliz e=1
filters=256 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=512
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3 activation=line
ar
[convolutional]
batch_normaliz e=1
filters=256 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=512
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3
activation=line
ar
Downsample
[convolutional]
batch_normaliz
e=1 filters=1024
size=3 stride=2

pad=1
activation=leak
y

[convolutional]
batch_normaliz e=1
filters=512 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=1024
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3
activation=line ar
[convolutional]
batch_normaliz e=1
filters=512 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=1024
size=3 stride=1
pad=1
activation=leak y
[shortcut] from=-
3
activation=line ar
[convolutional]
batch_normaliz e=1
filters=512
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=1024
size=3 stride=1

size=1 stride=1

pad=1

```
pad=1
activation=leak y
[shortcut]  from=-
3  activation=line
ar
[convolutional]
batch_normaliz e=1
filters=512 size=1
stride=1 pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1  filters=1024
size=3   stride=1
pad=1
activation=leak y
[shortcut]  from=-
3  activation=line
ar
######################
#   [convolutional]
batch_normaliz e=1
filters=512 size=1 stride=1
pad=1
activation=leak
y
[convolutional]
batch_normaliz e=1
size=3 stride=1
pad=1 filters=1024
activation=leak
y
[convolutional]
batch_normaliz e=1
filters=512 size=1
stride=1 pad=1
activation=leak
y
```

[convolutional]
batch_normaliz e=1
size=3 stride=1
pad=1 filters=1024
activation=leak
y
[convolutional]
batch_normaliz e=1
filters=512 size=1
stride=1 pad=1
activation=leak y
[convolutional]
batch_normaliz
e=1 size=3
stride=1 pad=1
filters=1024
activation=leak y
[convolutional]

size=1 stride=1

pad=1
filters=255
activation=line ar

[yolo]
mask =
6,7,8
anchors = 10,13, 16,30, 33,23, 30,61, 62,45, 59,119,
116,90,
156,198, 373,326
classes=80
num=9
jitter=.3
ignore_thresh = .7
truth_thresh =
1 random=1

[route]
layers = 4
[convolutional]
batch_normaliz
e=1 filters=256
size=1 stride=1
pad=1
activation=leak y
[upsample]
stride=2
[route] layers
= -1, 61

[convolutional]
batch_normaliz
e=1 filters=256
activation=leak
y
[convolutional]
batch_normaliz
e=1 size=3

size=1 stride=1

pad=1
stride=1 pad=1
filters=512
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=256
size=1 stride=1
pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 size=3
stride=1 pad=1
filters=512
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=256
size=1 stride=1
pad=1
activation=leak
y
[convolutional]
batch_normaliz
e=1 size=3
stride=1 pad=1
filters=512
activation=leak
y
[convolutional] filters=255 activation=line
ar [yolo]
mask =
3,4,5
anchors =
10,13,
16,30,

size=1 stride=1

pad=1
33,23,
30,61,
62,45,
59,119,
116,90,
156,198, 373,326
classes=80
num=9
jitter=.3
ignore_thresh = .7
truth_thresh =
1 random=1

[route] layers
= -
4
[convolutional]
batch_normaliz
e=1 filters=128
size=1 stride=1
pad=1
activation=leak
y   [upsample]
stride=2 [route]
layers
= -1, 36

[convolutional]
batch_normaliz
e=1 filters=128
size=1 stride=1
pad=1
activation=leak y

[convolutional]
batch_normaliz
e=1 size=3
stride=1 pad=1
filters=256
activation=leak
y
[convolutional]
batch_normaliz
e=1 filters=128
size=1 stride=1
pad=1
activation=leak y
[convolutional]
batch_normaliz
e=1 size=3
stride=1
pad=1
filters=256
activation=leak y
[convolutional]
batch_normaliz
e=1 filters=128
size=1 stride=1
pad=1
activation=leak y
[convolutional]
batch_normaliz
e=1 size=3

stride=1 pad=1
filters=256
activation=leak
y
[convolutional]
size=1 stride=1
pad=1
filters=255
activation=line
ar
 [yolo]
mask =
0,1,2
anchors = 10,13, 16,30, 33,23, 30,61, 62,45, 59,119,
116,90,
156,198, 373,326
classes=80
num=9
jitter=.3
ignore_thresh = .7
truth_thresh =
1 random=1