PROJECT DEVELOPMENT PHASE SPRINT - 3

Date	18 NOVEMBER 2022
Team ID	PNT2022TMID26760
Project Name	Project-VirtualEye-Lifeguard 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 = 1.5exposure = 1.5hue=.1learning_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
[convolutional]
batch_normaliz
e=1 filters=32
size=1 stride=1
pad=1
activation=leak
[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
[convolutional]
batch normaliz
e=1 filters=64
size=1 stride=1
pad=1
activation=leak
[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
[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
[convolutional]
batch normaliz
e=1 filters=128
size=1 stride=1
pad=1
activation=leak
[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
[convolutional]
batch normaliz
e=1 filters=256
size=3 stride=1
pad=1
activation=leak
y [shortcut]
from=-3
activation=line
[convolutional]
batch_normaliz
e=1 filters=128
size=1 stride=1
pad=1
activation=leak
[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
[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
[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
[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
[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
[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
У
[convolutional]
batch_normaliz
e=1 filters=256
size=1 stride=1
pad=1
activation=leak
[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
[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 [convolutional] batch_normaliz e=1 filters=512 size=3 stride=1 pad=1 activation=leak y [shortcut] from = -3activation=line [convolutional] batch_normaliz e=1 filters=256 size=1 stride=1 pad=1 activation=leak [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
[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
У
[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
[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
[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
У
```

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

```
pad=1
activation=leak
[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
[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
У
```

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

e=1 filters=512 pad=1 У

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

[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
[upsample]
stride=2
[route] layers
= -1, 61
[convolutional]
batch_normaliz
```

e=1 filters=256 size=1 stride=1

```
pad=1
activation=leak
[convolutional]
batch_normaliz
e=1 size=3
stride=1 pad=1
filters=512
activation=leak
[convolutional]
batch_normaliz
e=1 filters=256
size=1 stride=1
pad=1
activation=leak
[convolutional]
batch_normaliz
e=1 size=3
stride=1 pad=1
filters=512
activation=leak
[convolutional]
batch_normaliz
e=1 filters=256
size=1 stride=1
pad=1
activation=leak
[convolutional]
batch_normaliz
e=1 size=3
stride=1 pad=1
filters=512
activation=leak
[convolutional]
size=1 stride=1
```

```
pad=1
filters=255
activation=line
ar
[yolo]
mask =
3,4,5
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=128
size=1 stride=1
pad=1
activation=leak
У
[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
У
[convolutional]
batch_normaliz
e=1 size=3
stride=1 pad=1
filters=256
activation=leak
У
[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 \text{ truth thresh} =
1 random=1
```