



# Phuket Landmark Recognition

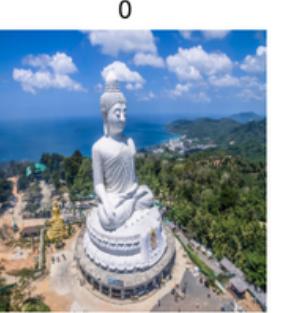
Hackathon Online: Super AI Engineer Season 3

- 300190-กัณฐ์จน
- 301642-พิริวัฒน์
- 301019-พชร

# ศาลเจ้า



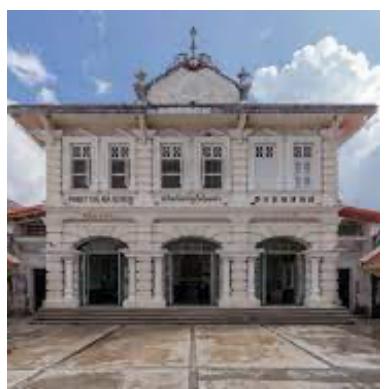
# หาดแหลมสิงห์ พระพุทธมีงมงคล



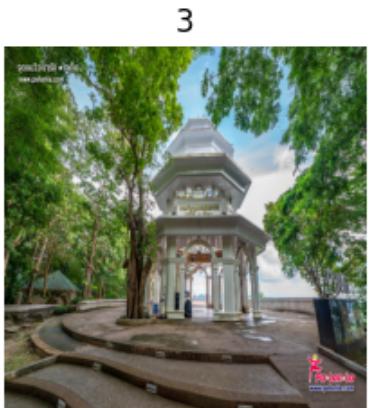
# จุดชมวิวสามอ่าว



# พิพิธภัณฑ์ไทยหัว



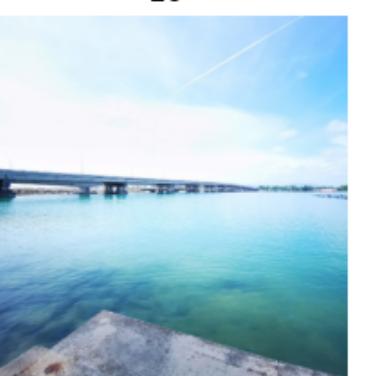
# จุดชมวิวเขารัง



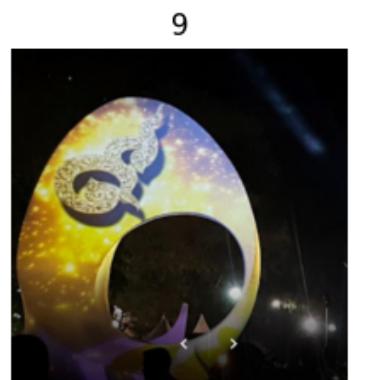
# ย่านเมืองเก่า



# สะพานสารสิน



# วงศ์เวียนหอย



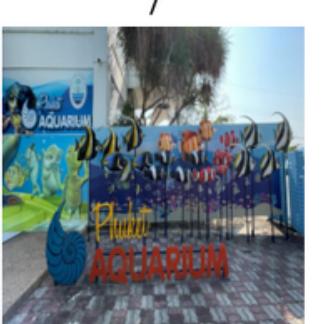
# วัดฉลอง



# แหลมพรหมเทพ



# อควาเรียม



# หาดสุริทต์

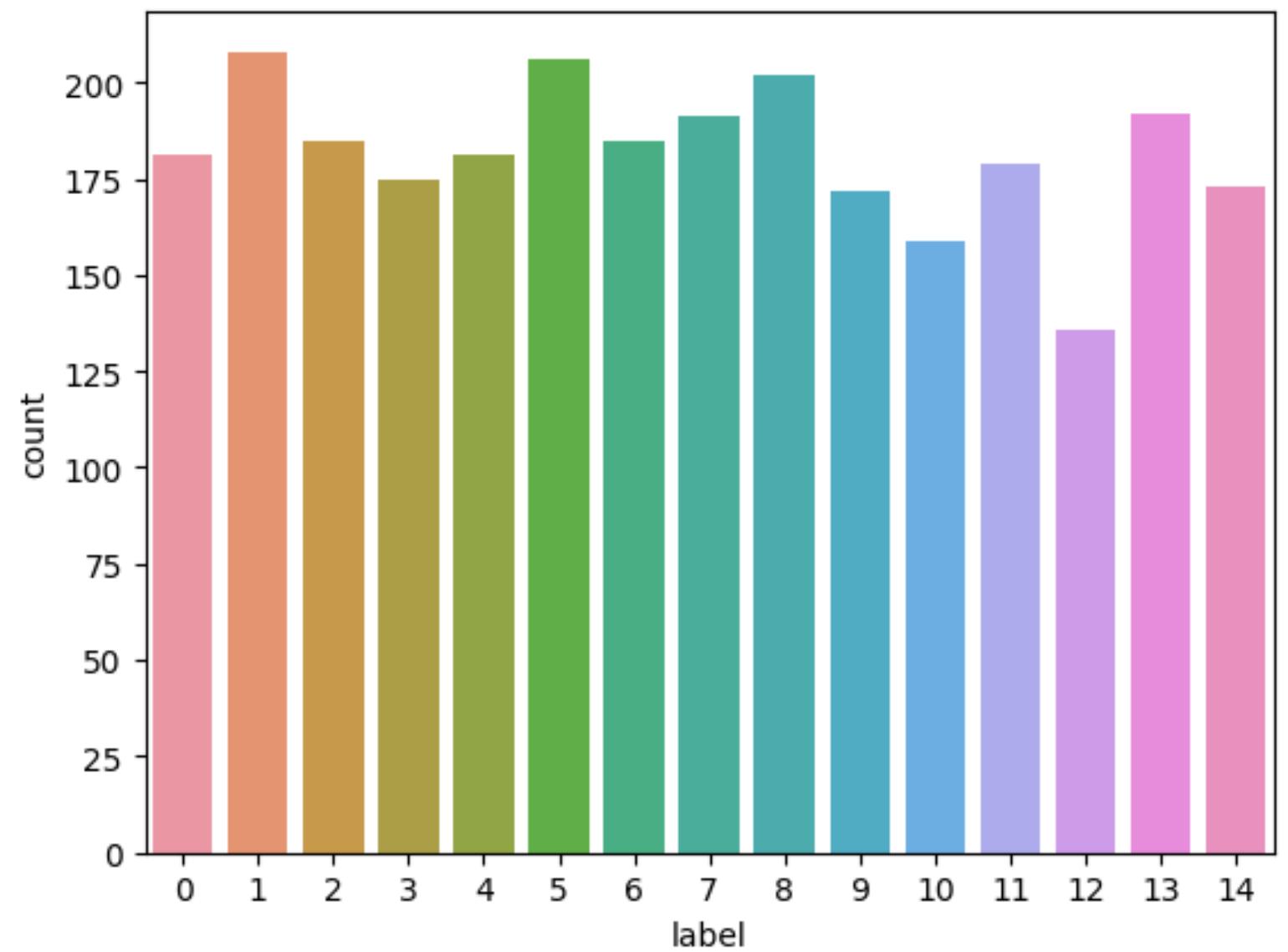


# วัดพระทอง



# อนุสาวรีย์ท้าวเทพ

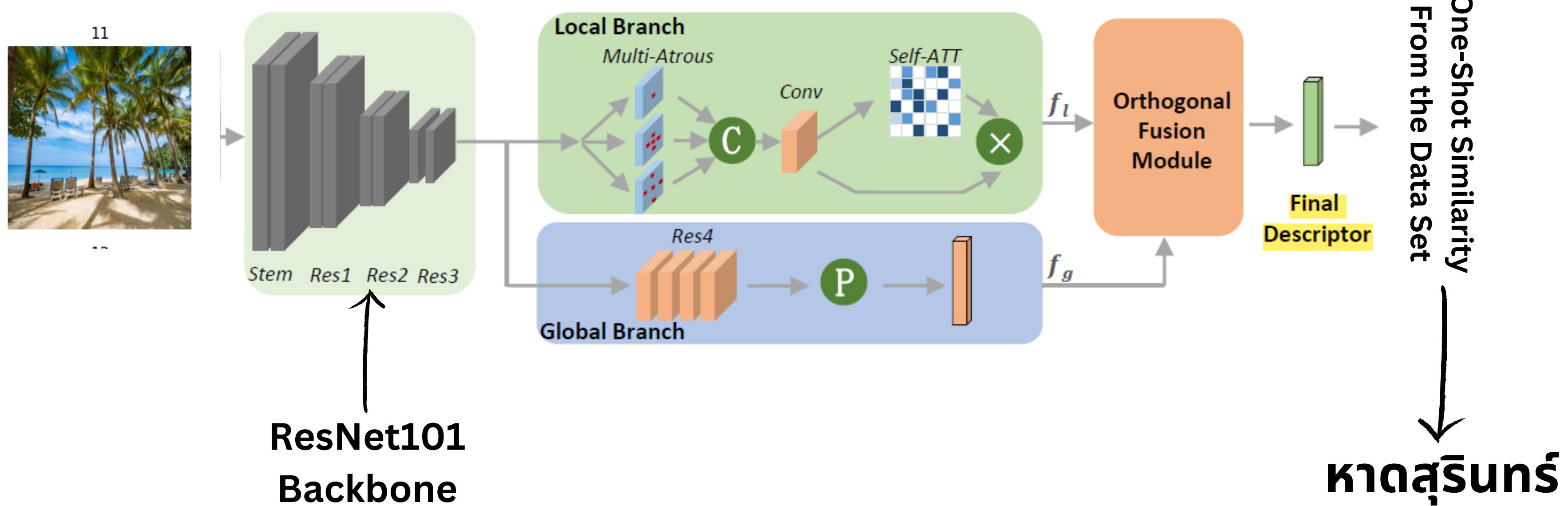




<b>eva02</b> eva02_large_448	only auto contrast, colored, normalize=imagenet_stat	image_size=448	bs=8 epoch=5, tta=64	<b>0.982</b>
eva02 eva02_large_448	autocontrast HorizontalFlip,ImageCompression, Sharpen,randomBC normalize=imagenet_stat	image_size=448	bs=32, epoch=5 tta=30	0.976
maxvit	only auto contrast, colored, normalize=imagenet_stat	image_size=512	bs=8, epoch=10 tta=64	0.952
DOLG	-	image_size=224	bs= 10 epoch = 10	0.95546
Yolov8x-cls	Augmentation (rotation/shear/ brightness/crop)	image_size= 640	bs = 16 epoch = 160	0.94933
Yolov8n-Detection	raw data	image_size= 640	bs = 16 epoch = 27	0.932266

# DOLG for Image Retrieval

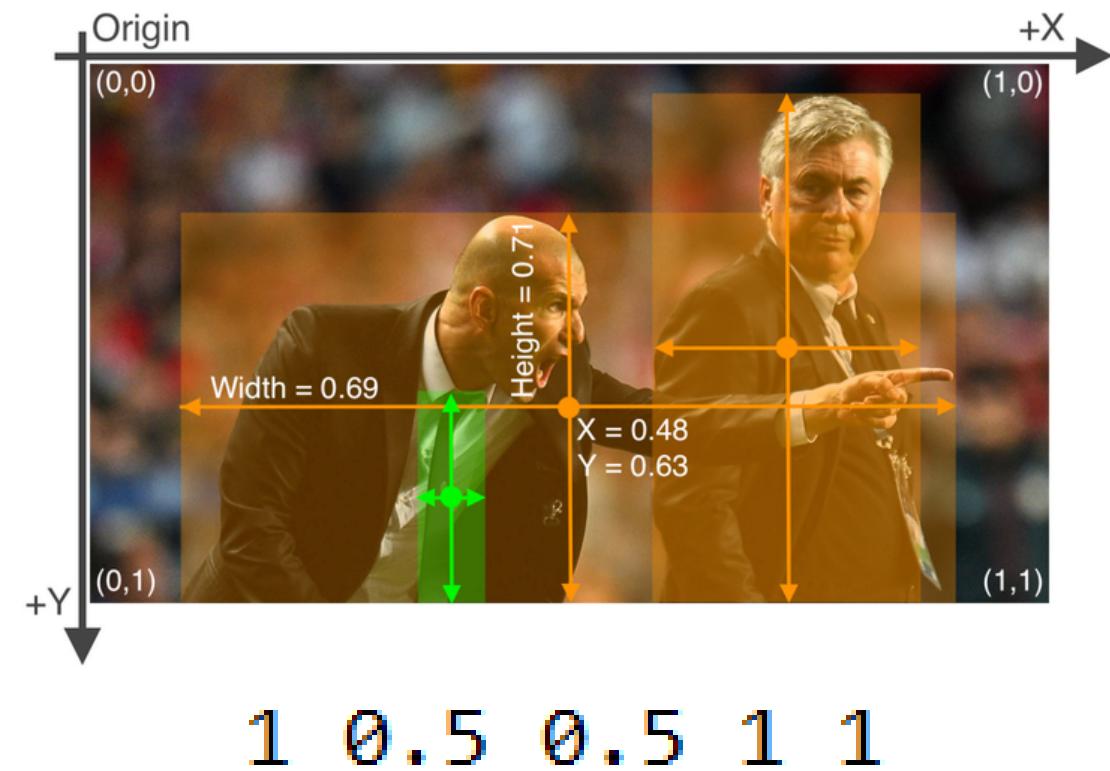
- Used as a part of the model Google Landmark Recognition Competition in 2021 by the winner.
- Good Training and Predicting Speed.
- Can be trained with a little imbalance dataset, and when the low amount of dataset is available.



# Yolov8

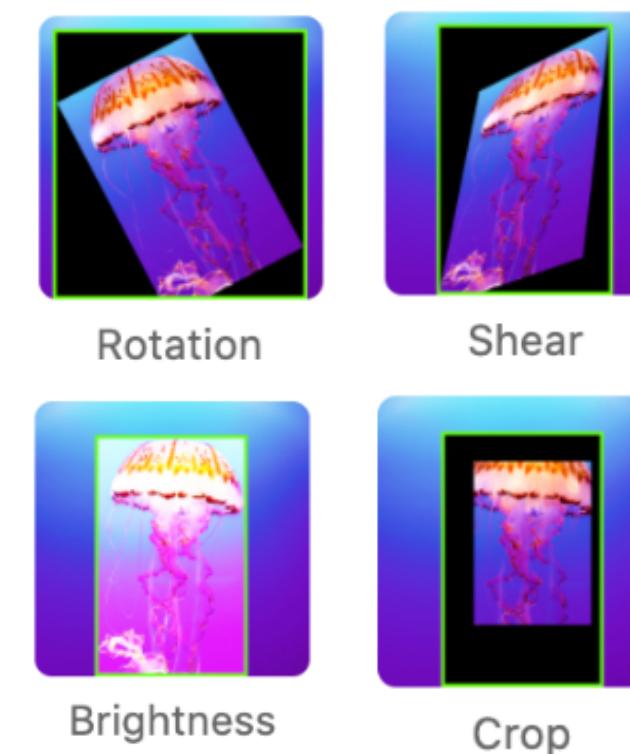
## Yolov8n-Detection

- Raw data
- Full image labels
- model n (pre-train, 27 epochs)
- predict class by confident



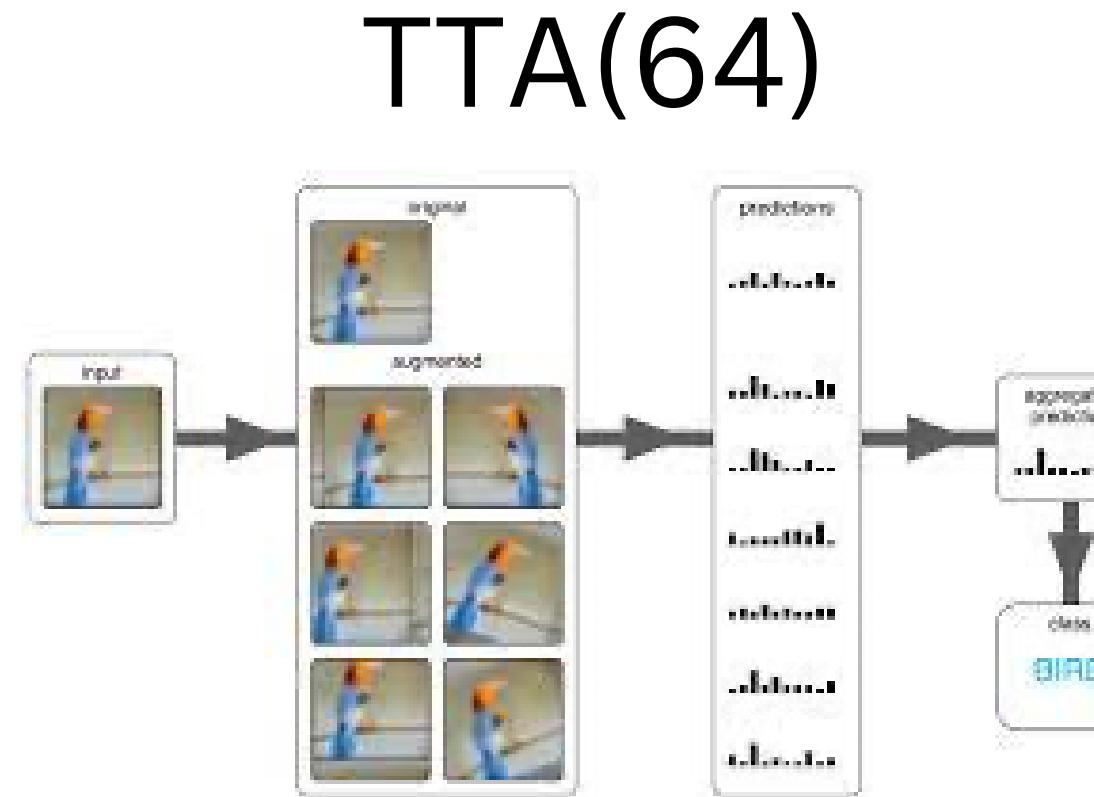
## Yolov8x-cls

- Augmentation
  - rotation
  - brightness
- model x (pre-train, 160 epochs)
- shear
- crop



# eva02\_large\_448

colored,  
only auto contrast,  
normalize:imagenet\_stat

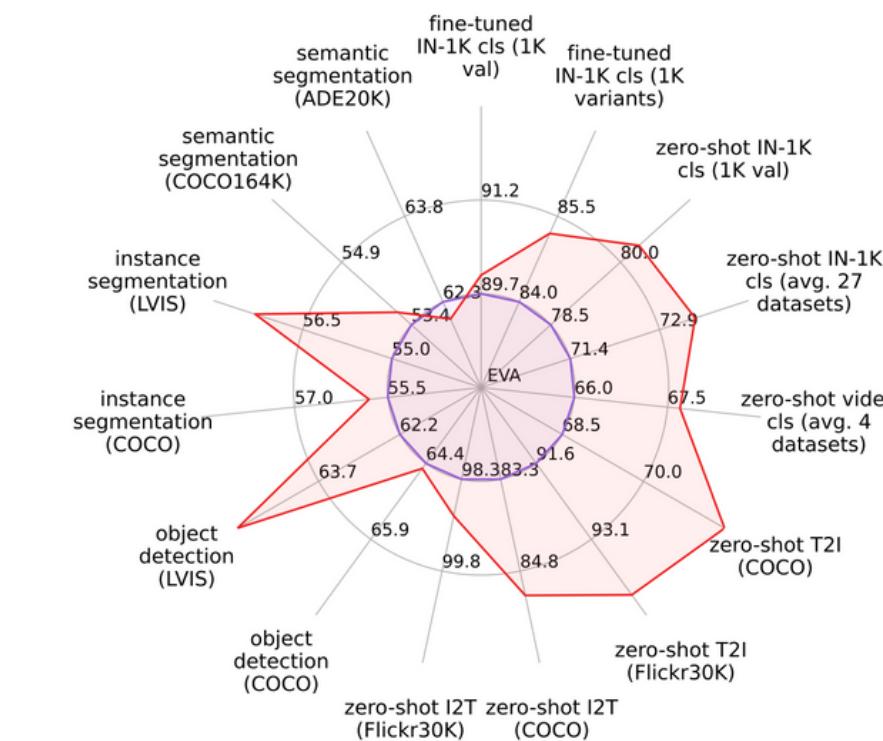


## EVA-02: A Visual Representation for Neon Genesis

Yuxin Fang<sup>2,1</sup> Quan Sun<sup>1</sup> Xinggang Wang<sup>2</sup> Tiejun Huang<sup>1</sup> Xinlong Wang<sup>1</sup> Yue Cao<sup>1</sup>

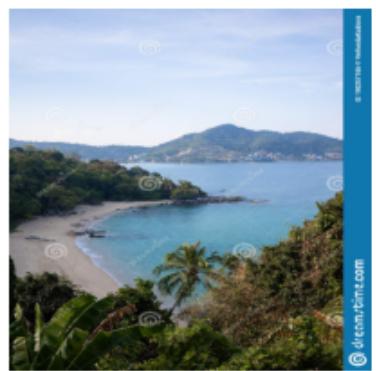
<sup>1</sup>Beijing Academy of Artificial Intelligence <sup>2</sup>Huazhong University of Science and Technology

Fight together with Asuka at [baavision/EVA/02](#)



# eva02\_large\_448

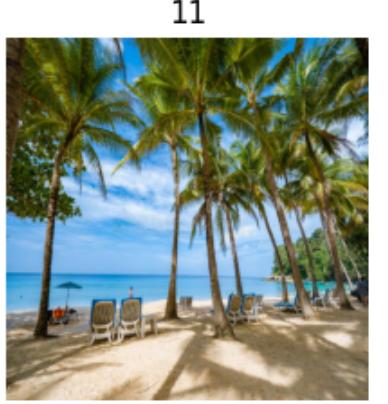
หาดแหลมสิงห์



-หิน

-ป่า

หาดสุริทราย



-ตื้นมะพร้าว

-คน

-ร่ม

วัดพระทอง



-องพระ

วัดฉลอง



-อาคาร

# majority voting

**ensemble1**

**0.976**

**-eva02\_3**

**-yoloX-cls**

**-DOLG**

**ensemble2**

**0.978**

**-eva02\_3**

**-yoloX-detec**

**-DOLG**

**ensemble3**

**0.981**

**-eva02\_3**

**-MAX-vit**

**-DOLG**

**ensemble4**

**0.984**

**-eva02\_3**

**-eva02\_2**

**-DOLG**

**ensemble5**

**0.981**

**-eva02\_3**

**-ensemble3**

**-ensemble4**

