

Deep Learning Pre-trained Models

Pre-Trained Models for Image Classification

1. ResNet (Residual Networks)

- ResNet-50, ResNet-101, ResNet-152

2. Inception

- Inception v3, Inception-ResNet v2

3. VGGNet

- VGG-16, VGG-19

4. MobileNet

- MobileNet v1, MobileNet v2, MobileNet v3

5. DenseNet

- DenseNet-121, DenseNet-169, DenseNet-201

6. EfficientNet

- EfficientNet B0-B7

Pre-Trained Models for face detection

1. AlexNet
2. Dlib
3. MTCNN
4. DeepFace
5. Face recognition
6. OpenCV
7. OpenFace
8. ResNet
9. VGGFace2

Pre-Trained Models for Object detection

1. YOLO (You Only Look Once)

- YOLOv3, YOLOv4, YOLOv5

2. SSD (Single Shot Multibox Detector)

- SSD300, SSD512

3. Faster R-CNN (Region-based Convolutional Neural Networks)

4. RetinaNet

5. Mask R-CNN: Extends Faster R-CNN by adding a branch for predicting segmentation masks, by Facebook AI Research.

Pre-Trained Models for Segmentation

1. U-Net
2. SegNet
3. Mask R-CNN
4. DeepLab