



The OpenVINO team continues the effort to support as many models out-of-the-box as possible. Based on our research and user feedback, we prioritize the most common models and test them before every release. These supported models include but aren't limited to the models listed in the tables below.

## Object Detection

model category

148

number of models

ctdet\_coco\_dlav0\_512  
detr\_resnet50  
efficientdet-d0  
efficientdet-d1  
efficientnet-b0  
efficientnet-v2-m  
faceboxes  
face-detection-0200  
face-detection-0202  
face-detection-0204  
face-detection-0205  
face-detection-0206  
face-detection-adas-0001  
face-detection-retail-0004  
face-detection-retail-0005  
face-detection-retail-0044  
facenet-20180408-102900  
face-person-detection-retail-0002  
face-recognition-resnet100-arcface  
face-recognition-resnet50-arcface  
face-recognition-resnet50-aws  
face-reidentification-retail-0095  
facial-landmarks-35-adas-0002  
facial-landmarks-98-detection-0001  
faster\_rcnn\_inception\_resnet\_v2\_atrous\_coco  
faster\_rcnn\_inception\_v2\_coco  
faster\_rcnn\_resnet101\_coco  
faster\_rcnn\_resnet50\_coco  
faster\_rcnn\_resnet50\_fpn\_coco  
faster-rcnn-resnet101-coco-sparse-60-0001  
fastscnn  
gaze-estimation-adas-0002  
head-pose-estimation-adas-0001  
hg-s8-b1-mpii  
higher-hrnet-w32-512

human-pose-estimation-0001  
human-pose-estimation-0002  
human-pose-estimation-0003  
human-pose-estimation-0004  
human-pose-estimation-0005  
human-pose-estimation-0006  
human-pose-estimation-0007  
human-pose-estimation-3d-0001  
instance-segmentation-person-0007  
instance-segmentation-security-0002  
instance-segmentation-security-0010  
instance-segmentation-security-0050  
instance-segmentation-security-0083  
instance-segmentation-security-0091  
instance-segmentation-security-0228  
instance-segmentation-security-1025  
instance-segmentation-security-1039  
instance-segmentation-security-1040  
landmarks-regression-retail-0009  
mobilefacedet-v1-mxnet  
mobilenet-ssd  
mobilenet-v1-0.25-128  
mobilenet-v1-1.0-224  
mobilenet-v2  
mobilenet-v2-1.0-224  
mobilenet-v2-1.4-224  
mobilenetv2-int8-onnx-0001  
mobilenet-v3-large-1.0-224  
mobilenet-v3-small-1.0-224  
mobilenet-yolo-v4-syg  
mtcnn-p  
openpose-pose  
pedestrian-and-vehicle-detector-adas-0001  
pedestrian-detection-adas-0002  
pelee-coco  
person-attributes-recognition-crossroad-0230  
person-attributes-recognition-crossroad-0234  
person-attributes-recognition-crossroad-0238  
person-detection-0100  
person-detection-0101  
person-detection-0102

person-detection-0106  
person-detection-0200  
person-detection-0201  
person-detection-0202  
person-detection-0203  
person-detection-0301  
person-detection-0302  
person-detection-0303  
person-detection-action-recognition-0005  
person-detection-action-recognition-0006  
person-detection-action-recognition-teacher-0002  
person-detection-asl-0001  
person-detection-raisinghand-recognition-0001  
person-detection-retail-0002  
person-detection-retail-0013  
person-reidentification-retail-0248  
person-reidentification-retail-0277  
person-reidentification-retail-0286  
person-reidentification-retail-0287  
person-reidentification-retail-0288  
person-vehicle-bike-detection-2000  
person-vehicle-bike-detection-2001  
person-vehicle-bike-detection-2002  
person-vehicle-bike-detection-2003  
person-vehicle-bike-detection-2004  
person-vehicle-bike-detection-crossroad-0078  
person-vehicle-bike-detection-crossroad-1016  
person-vehicle-bike-detection-crossroad-yolov3-1020  
pp-yolo  
product-detection-0001  
single-human-pose-estimation-0001  
single-image-super-resolution-1032  
smartlab-object-detection-0001  
smartlab-object-detection-0002  
smartlab-object-detection-0003  
smartlab-object-detection-0004  
ssd\_mobilenet\_v1\_coco  
ssd\_mobilenet\_v1\_fpn\_coco  
ssd300  
ssd300-int8-onnx-0001  
ssd300-onnx-0001

ssd512  
ssd512-onnx  
ssdlite\_mobilenet\_v2  
ssd-resnet34-1200  
tiny\_yolo\_v1  
tiny\_yolo\_v2  
ultra-lightweight-face-detection-rfb-320  
ultra-lightweight-face-detection-slim-320  
vehicle-detection-0200  
vehicle-detection-0201  
vehicle-detection-0202  
vehicle-detection-adas-0002  
vehicle-license-plate-detection-barrier-0106  
vehicle-license-plate-detection-barrier-0123  
yolo\_v2  
yolo\_v3  
yolo\_v3\_tiny  
yolo\_v4  
yolo\_v5m  
yolo\_v5s  
yolof  
yolor\_p6  
yolo-v2-ava-0001  
yolo-v2-ava-sparse-35-0001  
yolo-v2-ava-sparse-70-0001  
yolo-v2-tiny-ava-0001  
yolo-v2-tiny-ava-sparse-30-0001  
yolo-v2-tiny-ava-sparse-60-0001  
yolo-v2-tiny-vehicle-detection-0001  
yolo-v4-tiny  
yolox-tiny

## Image Classification

model category

68

number of models

age-gender-recognition-retail-0013  
alexnet  
anti-spoof-mn3  
asl-recognition-0003  
asl-recognition-0004  
brain-tumor-segmentation-0001  
brain-tumor-segmentation-0002  
caffenet

common-sign-language-0001  
common-sign-language-0002  
densenet-121  
dla-34  
east\_resnet\_v1\_50  
googlenet-v1  
googlenet-v2  
googlenet-v3  
googlenet-v4  
hbonet-0.25  
hbonet-1.0  
image-retrieval-0001  
inception-resnet-v2  
inceptionv3-int8-onnx-0001  
mixnet-l  
netvlad  
nfnet-f0  
octave-resnet-26-0.25  
octave-resnext-101-0.25  
open-closed-eye-0001  
regnetx-3.2gf  
se-inception  
se-resnet-50  
se-resnext-101  
shufflenet-v2-x0.5  
shufflenet-v2-x1.0  
Sphereface  
squeezezenet1.0  
swin-tiny-patch4-window7-224  
t2t-vit-14  
t2t-vit-7  
vehicle-attributes-recognition-barrier-0039  
vehicle-attributes-recognition-barrier-0042  
vehicle-reid-0001  
vgg16  
vgg19  
weld-porosity-detection-0001  
repvgg-a0  
repvgg-b1  
repvgg-b3  
resnest-50-pytorch

resnet-101  
resnet-152  
resnet-18  
resnet18-dorefa-binary-onnx-0001  
resnet18-xnor-binary-onnx-0001  
resnet-34-pytorch  
resnet-50  
resnet50\_ssd\_gluoncv  
resnet50-binary-0001  
resnet50-int8-onnx-0001  
resnet-50-pytorch  
resnet-50-tf  
resnext101-32x16d-swsl  
resnext-101-32x8d  
retinaface-resnet50  
retinanet  
retinanet\_resnet34  
rexnet-v1-x1.0  
rfcn-resnet101-coco

## Instance Segmentation

3

model category

number of models

mask\_rcnn\_inception\_resnet\_v2\_atrous\_coco  
mask\_rcnn\_resnet50\_atrous\_coco  
yolact-resnet50-fpn-pytorch

## Image Classification, Dual Path Network

1

model category

number of models

dpn-68

## Semantic Segmentation

19

model category

number of models

background-matting-mobilenetv2  
bisenet-v2  
deeplabv3  
deeplab-v3p-resnet50-os8  
drn-d-38  
fastseg-large  
fastseg-small  
hrnet-v2-c1-segmentation  
icnet-camvid-ava-0001  
icnet-camvid-ava-sparse-30-0001  
icnet-camvid-ava-sparse-60-0001  
icnet-camvid-onnx-0001

pspnet-pytorch

road-segmentation-adas-0001

semantic-segmentation-adas-0001

unet-2d

unet3d\_mlperf

unet-camvid-int8-onnx-0001

unet-camvid-onnx-0001

## Image Classification, Emotion

1

model category

number of models

emotions-recognition-retail-0003

## Image Processing, Enhancement

16

model category

number of models

began

ebgan

edsr3\_super\_resolution

gmcnn-places2

hybrid-cs-model-mri

Sharpen-LensBlur

Sharpen-MotionBlur

Sharpen-Sharpen

single-image-super-resolution-1033

srgan

text-image-super-resolution-0001

wdsr-small-x4

robust-video-matting-mobilenetv3

deblurgan-v2

fbCNN

topaz\_video\_super\_resolution

## Image Translation

1

model category

number of models

cocosnet

## Monodepth

2

model category

number of models

fcrn-dp-nyu-depth-v2-tf

midasnet

## Natural language Processing

35

model category

number of models

bert-base-cased

bert-base-ner

bert-large-uncased-whole-word-masking-squad-0001

bert-large-uncased-whole-word-masking-squad-emb-0001

bert-large-uncased-whole-word-masking-squad-int8-0001  
bert-small-uncased-whole-word-masking-squad-0001  
bert-small-uncased-whole-word-masking-squad-0002  
bert-small-uncased-whole-word-masking-squad-emb-int8-0001  
bert-small-uncased-whole-word-masking-squad-int8-0002  
cnn-tdnnf  
cnn-tdnnf-lstm  
forward-tacotron-duration-prediction  
forward-tacotron-regression  
GPT-2  
machine-translation-nar-de-en-0001  
machine-translation-nar-de-en-0002  
machine-translation-nar-en-de-0001  
machine-translation-nar-en-de-0002  
machine-translation-nar-en-ru-0002  
machine-translation-nar-ru-en-0002  
mobilebert  
mozilla-deepspeech-0.6.1  
mozilla-deepspeech-0.8.2  
quartznet-15x5-en  
rm\_cnn4a\_smbr  
rm\_lstm4f  
roberta-base  
roberta-base-mrpc  
tedlium\_dnn4\_smbr  
tedlium\_lstm4f  
wav2vec2-base  
wavernn-rnn  
wavernn-upsampler  
wsj\_cnn4b\_smbr  
wsj\_dnn5b\_smbr

## Colorization

2

model category

number of models

colorization-siggraph

colorization-v2

## Text Detection

18

model category

number of models

ctpn

handwritten-english-recognition-0001

handwritten-japanese-recognition-0001

handwritten-score-recognition-0003



handwritten-simplified-chinese-recognition-0001

horizontal-text-detection-0001

license-plate-recognition-barrier-0001

license-plate-recognition-barrier-0007

ocrnet-hrnet-w18

ocrnet-hrnet-w48

ocr-perpetuuiti

text-detection-0003

text-detection-0004

text-recognition-0012

text-recognition-0013

text-recognition-0014

text-recognition-resnet-fc

vitstr-small-patch16-224

## Behavior / Decision Prediction

1

model category

number of models

dien\_alibaba

## Audio Enhancement

3

model category

number of models

Denoise

noise-suppression-denseunet-II-0001

noise-suppression-poconetlike-0001

## Action Recognition

2

model category

number of models

i3d-flow

i3d-rgb

## Sound Classification

2

model category

number of models

aclnet

aclnet-int8

## Time Series Forecasting

1

model category

number of models

time-series-forecasting-electricity-0001