

Top 10 Sources to Find Computer Vision and AI Models



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[Computer Vision](https://learnopencv.com/category/computer-vision/) (<https://learnopencv.com/category/computer-vision/>) [Deep Learning](https://learnopencv.com/category/deep-learning/) (<https://learnopencv.com/category/deep-learning/>) [Edge Devices](https://learnopencv.com/category/edge-devices/) (<https://learnopencv.com/category/edge-devices/>) [Image Segmentation](https://learnopencv.com/category/image-segmentation/) (<https://learnopencv.com/category/image-segmentation/>) [Object Detection](https://learnopencv.com/category/object-detection/) (<https://learnopencv.com/category/object-detection/>)



(<https://learnopencv.com/wp-content/uploads/2022/05/Top-10-Sources-to-Find-Computer-Vision-and-AI-Models.jpg>)

The AI community generously shares code, model architectures, and even models trained on large datasets. We are standing on the shoulders of giants, which is why the industry is adopting AI so widely.

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vision project, we first find models that partially solve our problem.

a security application that looks for humans in restricted areas. First, check if a publicly available pedestrian detection the box. If it does, you do not need to train a new model. If not, experimenting with publicly available models will give you an idea of which architecture to choose for finetuning or transfer learning.

Today, we will learn about free resources for computer vision, machine learning, and AI models.

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1. Papers With Code (<https://paperswithcode.com/>)



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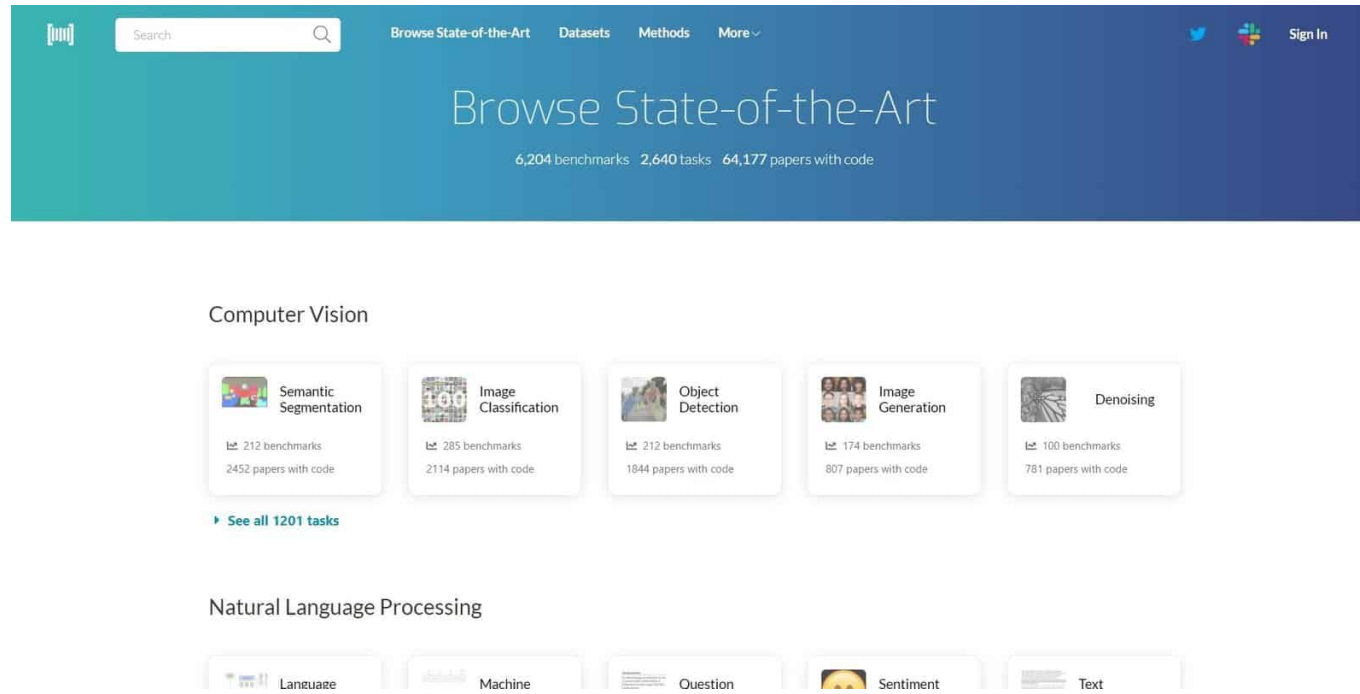
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Source: paperswithcode.com/static/logo.png (<https://paperswithcode.com/static/logo.png>)

The mission of [Papers with Code](https://paperswithcode.com/) (<https://paperswithcode.com/>) is to create a free and open resource with Machine Learning papers, code, datasets, methods, and evaluation tables.

methods, and evaluation tables.

The platform is updated regularly with the latest papers and resources in computer vision and other subfields of AI.



(<https://learnopencv.com/wp-content/uploads/2022/02/papers-with-code-sota.jpg>).

Source: paperswithcode.com/sota (<https://paperswithcode.com/sota>).

1.1 Use filters to narrow search results

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Benchmarks

Add a Result

If Machine Learning tasks with hundreds of research papers and code implementations, you will have a sea of information. Thoughtful filtering features available on the platform come to the rescue.

These leaderboards are used to track progress in Object Detection

Trend	Dataset	Best Model	Paper	Code	Compare
	COCO test-dev	Florence-CoSwin-H			See all
	COCO minival	Florence-CoSwin-H			See all
	PASCAL VOC 2007	Cascade Eff-B7 NAS-FPN (Copy Paste pre-training, single-scale)			See all
	CPPE-5	TridentNet			See all
	CrowdHuman (full body)	CrowdDet			See all
	UA-DETRAC	FFAVOD-SpotNet with U-Net			See all
	Waymo 2D detection all_ns f0val	UniverseNet-20.08			See all
	Manga109-s 15test	UniverseNet-20.08			See all
	USB (Standard USB 1.0 protocol)	UniverseNet-20.08			See all

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<https://paperswithcode.com/task/object-detection> (<https://paperswithcode.com/task/object-detection>).
In view all the state-of-the-art models that perform best on the popular benchmarks for that task. Also, you can choose to : number of upvotes they have received from the community in the form of stars.

1.3 Datasets

Besides this, Papers with Code also has a collection of popular public datasets available at one location.

(<https://learnopencv.com/wp-content/uploads/2022/02/pwc-datasets-1.png>).

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Source: paperswithcode.com/datasets (<https://paperswithcode.com/datasets>).

you can compare a large number of solutions to find the one that might suit you.

Master Generative AI for CV

Get expert guidance, insider tips & tricks. Create stunning images, learn to fine tune diffusion models, advanced Image editing techniques like In-Painting, Instruct Pix2Pix and many more

Learn More

(<https://www.indiegogo.com/projects/mastering-ai-art-generation#/>)

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co(<https://modelzoo.co/>)

(<https://learnopencv.com/wp-content/uploads/2022/02/Modelzoo-co.jpg>).

Source: modelzoo.co (<https://modelzoo.co/>).

Created by Jing Yu Koh, a research engineer at Google, [Model Zoo](https://modelzoo.co/) (<https://modelzoo.co/>) curates and provides a platform for deep learning researchers to quickly find pre-trained models for various platforms and tasks.

The site is regularly updated and provides filtering functionality to find the suitable models according to the machine learning framework you plan to use or the category of the task at hand.

The two most useful categories for us are

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[s://modelzoo.co/category/computer-vision](https://modelzoo.co/category/computer-vision)).

[tps://modelzoo.co/category/generative-models](https://modelzoo.co/category/generative-models)).

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3. Open Model Zoo

(https://github.com/openvinotoolkit/open_model_zoo)

(<https://learnopencv.com/wp-content/uploads/2022/02/openvino-chart.jpg>).

Source: docs.openvino.ai/latest/_static/images/ov_chart.png (https://docs.openvino.ai/latest/_static/images/ov_chart.png).

Open Model Zoo (https://github.com/openvinotoolkit/open_model_zoo) for OpenVINO™ toolkit (<https://learnopencv.com/?s=openvino&id=16719>) provides a wide variety of free, highly optimized pre-trained deep learning models that run blazingly fast on Intel CPUs, GPUs, and VPUs.

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er **200 neural network** models for tasks including object detection, classification, image segmentation, handwriting pose estimation, and others.

lets.

1. Intel's Pre-trained Models (https://docs.openvino.ai/latest/omz_models_group_intel.html): The team at Intel has trained these models and optimized them to run with OpenVINO. Check out the documentation (https://docs.openvino.ai/latest/omz_models_group_intel.html) to learn

optimized them to run with OpenVINO. Check out the [documentation \(https://docs.openvino.ai/latest/omz_models_group_intel.html\)](https://docs.openvino.ai/latest/omz_models_group_intel.html) to learn about model accuracy and performance.

2. **Public Pre-Trained Models** (https://docs.openvino.ai/latest/omz_models_group_public.html): These are models created by the AI community and can be easily converted to OpenVINO format using OpenVINO Model Optimizer. Check out the [documentation \(https://docs.openvino.ai/latest/omz_models_group_public.html\)](https://docs.openvino.ai/latest/omz_models_group_public.html) for model speed and accuracy.

Always check the [device support page \(https://docs.openvino.ai/latest/omz_models_public_device_support.html#doxid-omz-models-public-device-support\)](https://docs.openvino.ai/latest/omz_models_public_device_support.html#doxid-omz-models-public-device-support) to ensure the model is compatible with the device you want to run it on. Check out our [series on OpenVINO \(https://learnopencv.com/introduction-to-intel-openvino-toolkit/\)](https://learnopencv.com/introduction-to-intel-openvino-toolkit/) to learn the ins and outs.

The Open Model Zoo also houses a load of [demo applications \(https://github.com/openvinotoolkit/open_model_zoo/tree/master/demos\)](https://github.com/openvinotoolkit/open_model_zoo/tree/master/demos) with instructions for running them. You can use these applications as a template to build your applications.

You can also use the [Model Analyzer \(https://github.com/openvinotoolkit/model_analyzer\)](https://github.com/openvinotoolkit/model_analyzer) to get more insights for a model like memory consumption, sparsity, Gflop, etc. Keep in mind Model Analyzer works only with models in [Intermediate Representation \(IR\)](https://docs.openvino.ai/latest/openvino_docs_MO_DG_IR_and_opsets.html#intermediate-representation-used-in-openvino) (https://docs.openvino.ai/latest/openvino_docs_MO_DG_IR_and_opsets.html#intermediate-representation-used-in-openvino) format.

And if you are just beginning with OpenVino Toolkit, it might be worth checking out the [openvinotoolkit/openvino_notebooks \(https://github.com/openvinotoolkit/openvino_notebooks\)](https://github.com/openvinotoolkit/openvino_notebooks) repo. It contains ready-to-run jupyter notebooks to help you get up to speed about working with OpenVino toolkit and models available in the zoo.

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(<https://learnopencv.com/wp-content/uploads/2022/02/openvino-notebooks.jpg>).

Source: github.com/openvinotoolkit/openvino_notebooks (https://github.com/openvinotoolkit/openvino_notebooks).

Moreover, it also provides [tools](https://github.com/openvinotoolkit/open_model_zoo/tree/master/tools/model_tools) (https://github.com/openvinotoolkit/open_model_zoo/tree/master/tools/model_tools) to perform tasks on the model, ion, and quantization.

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<https://github.com/tensorflow/models> Model (<https://github.com/tensorflow/models>) Garden

logo.jpg)

[.\(https://learnopencv.com/wp-content/uploads/2022/02/TF-model-garden-](https://learnopencv.com/wp-content/uploads/2022/02/TF-model-garden-)

Source: [camo.githubusercontent.com](https://camo.githubusercontent.com/5ea07e7e136436b8403a58620eb25f78ca5ca50f603ea8c14cc85991fdf33086/68747470733a2f2f73746f726167652e676f6676c65f)

<https://camo.githubusercontent.com/5ea07e7e136436b8403a58620eb25f78ca5ca50f603ea8c14cc85991fdf33086/68747470733a2f2f73746f726167652e676f6676c65f>

TensorFlow is an end-to-end open-source platform for Machine Learning and arguably the most popular ML framework.

The [TensorFlow Model Garden](https://github.com/tensorflow/models) (<https://github.com/tensorflow/models>) is a repository containing many state-of-the-art (SOTA) models. There are three kinds of models.

1. [Official](https://github.com/tensorflow/models/tree/master/official) (<https://github.com/tensorflow/models/tree/master/official>): The models in this collection are maintained, tested, and kept up to date with the latest TensorFlow API.
2. [Research](https://github.com/tensorflow/models/tree/master/research) (<https://github.com/tensorflow/models/tree/master/research>): The models in this collection may use Tensorflow 1 or 2 and are maintained by researchers.
3. [Community](https://github.com/tensorflow/models/tree/master/community) (<https://github.com/tensorflow/models/tree/master/community>): This is a collection of links to models maintained by the community.

The aim of this repository is to provide the building blocks for you to train your own models by building on top of provided default configurations, datasets, and fine-tuning available model checkpoints.

To help you reproduce the training results training logs for the available models have also been provided.

TensorFlow users can leverage the provided models and treat them as references to train their model or fine-tune models from available checkpoints.

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[v Hub \(https://tfhub.dev/\)](https://tfhub.dev/)

.(<https://learnopencv.com/wp-content/uploads/2022/02/TF-hub-logo.jpg>).

Source: www.gstatic.com/aihub/tfhub/tensorflow_hub_logo_fullcolor (https://www.gstatic.com/aihub/tfhub/tensorflow_hub_logo_fullcolor.svg).

From image classification, text embeddings, audio, and video action recognition, [TensorFlow Hub](https://tfhub.dev/) (<https://tfhub.dev/>) is a space where you can browse trained models and datasets from across the TensorFlow ecosystem.

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[wp-content/uploads/2022/02/tf-hub-homepage.png](https://learnopencv.com/wp-content/uploads/2022/02/tf-hub-homepage.png)).

Source: tfhub.dev (<https://tfhub.dev/>).

garden, the models available on TensorFlow Hub are ready-to-use and intended to be used as black boxes with set inputs. If you find a model that suits your needs, you can use it!

Moreover, discover and download hundreds of trained products and frameworks like training models published from reputed researchers.

You can discover and download hundreds of trained ready-to-deploy machine learning models published from reputed resources.

All the deployment details are provided for the models like, the input and output formats, the dataset used, and expected performance metrics to help you choose the best models for your tasks. Example notebooks and interactive web experiences are also available for some models to make working with them a breeze.

The common formats of the available models are SavedModel, TFLite, or TF.js formats that can be directly implemented in code from their available [tensorflow hub library \(https://github.com/tensorflow/hub\)](https://github.com/tensorflow/hub). It lets you download and use the available models from TensorFlow Hub in your TensorFlow program with a minimum amount of code.

The TensorFlow Hub is open to community contributions, so we can be sure that the collection of models is bound to grow, and more models will be available at our disposal.

6. MediaPipe Models (<https://google.github.io/mediapipe/solutions/models>).

(<https://learnopencv.com/wp-content/uploads/2022/02/Mediapipe-logo.jpg>).

Source: mediapipe.dev/assets/img/brand (<https://mediapipe.dev/assets/img/brand.svg>).

MediaPipe is an open-source, cross-platform Machine Learning framework developed by Google researchers. It provides customizable ML solutions.

Although the Mediapipe project is still in the Alpha stage, its solutions have already been deployed in many everyday applications that we use. Google's 'motion stills' and YouTube's 'privacy blur' feature are such examples.

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lazingly fast performance, MediaPipe supports cross-platform compatibility. The idea is to build an ML model once and runs on various hardware platforms and devices with reproducible results.

script, Android, and iOS platforms.

The [mediapipe models collection \(https://google.github.io/mediapipe/solutions/models\)](https://google.github.io/mediapipe/solutions/models) provides ready-to-use perception models for different tasks,

[content/uploads/2022/02/Mediapipe-solutions.jpg](https://learnopencv.com/wp-content/uploads/2022/02/Mediapipe-solutions.jpg) [_](https://learnopencv.com/wp-)(<https://learnopencv.com/wp->

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Source: google.github.io/mediapipe/ (<https://google.github.io/mediapipe/>).

; available are [Face mesh](https://google.github.io/mediapipe/solutions/face_mesh) (https://google.github.io/mediapipe/solutions/face_mesh) (face landmark model), [Pose](https://google.github.io/mediapipe/solutions/pose) (<https://google.github.io/mediapipe/solutions/pose>), [Hair Segmentation](https://google.github.io/mediapipe/solutions/hair_segmentation) (https://google.github.io/mediapipe/solutions/hair_segmentation), [KNIFT](https://google.github.io/mediapipe/solutions/knift) (<https://google.github.io/mediapipe/solutions/knift>) (feature matching), etc.

Model cards are provided for each of the models available, containing all of the details regarding that model.

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(<https://learnopencv.com/wp-content/uploads/2022/02/face-mesh-model-card.jpg>).

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Source: drive.google.com/file/d/1tV7EJb3XgMS7Fw0ErTgLU1ZocYyNmwlF/preview (<https://drive.google.com/file/d/1tV7EJb3XgMS7Fw0ErTgLU1ZocYyNmwlF/preview>).

Model visualizer (<https://viz.mediapipe.dev/>) that is available online, helping to understand the overall behavior of their pipelines. Below is the graph structure of the available Face Detection model.

(<https://learnopencv.com/wp-content/uploads/2022/02/mediapipe-face-det-graph.png>).

Source: viz.mediapipe.dev/demo/face_detection (https://viz.mediapipe.dev/demo/face_detection).

With Fast performance and the hardware compatibility it offers, Mediapipe can be a good fit for most of the real-time vision solutions.

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CoreML Models (<https://github.com/likedan/Awesome-CoreML-Models>)

(<https://learnopencv.com/wp-content/uploads/2022/02/coreML-logo.jpg>)

Source: github.com/likedan/Awesome-CoreML-Models/raw/master/images/coreml.png (<https://github.com/likedan/Awesome-CoreML-Models/raw/master/images/coreml.png>)

Apple's CoreML library allows iOS, macOS, tvOS, or watchOS developers to create fun and exciting applications that harness the powers of AI. It has been around since iOS 11 and is incorporated in a lot of the upcoming applications in some form or the other.

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(<https://learnopencv.com/wp-content/uploads/2022/02/awesome-coreml-repo.png>).

Source: github.com/likedan/Awesome-CoreML-Models (<https://github.com/likedan/Awesome-CoreML-Models>).

[repository \(https://github.com/likedan/Awesome-CoreML-Models\)](https://github.com/likedan/Awesome-CoreML-Models) contains a collection of machine learning models that
ports. The models are available in the CoreML format and don't require post-processing or conversion in a CoreML based

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content/uploads/2022/02/coreML-flow.png). [_ \(https://learnopencv.com/wp-content/uploads/2022/02/coreML-flow.png\)](https://learnopencv.com/wp-content/uploads/2022/02/coreML-flow.png)

Source: docs-assets.developer.apple.com/published/cc3b628bee/rendered2x-1638462885.png (<https://docs-assets.developer.apple.com/published/cc3b628bee/rendered2x-1638462885.png>).

Other than the available models, the number of model formats can be converted to the coreML format. The supported formats include Tensorflow, Caffe, Keras, XGBoost, Scikit-learn, MXNet, LibSVM, Torch7, etc.

8. Jetson Zoo (https://www.elinux.org/Jetson_Zoo#Model_Zoo).

[_ \(https://learnopencv.com/wp-content/uploads/2022/02/Nvidia-jetson-banner.jpg\)](https://learnopencv.com/wp-content/uploads/2022/02/Nvidia-jetson-banner.jpg)

Source: www.nvidia.com/en-in/autonomous-machines/embedded-systems/ (<https://www.nvidia.com/en-in/autonomous-machines/embedded-systems/>).

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MXNet, and others.

puting board from Nvidia, is a popular choice amongst the embedded platform's community for deploying AI applications.anced networks, including the full native versions of popular ML frameworks like TensorFlow, PyTorch, Caffe/Caffe2, Keras,

Jetson Model Zoo (https://www.elinux.org/Jetson_Zoo#Model_Zoo) contains various DNN models for inferencing on Nvidia Jetson with support for TensorRT (<https://learnopencv.com/building-industrial-embedded-deep-learning-inference-pipelines-with-tensorrt/>). It includes the links to code samples with the model and the original source of the model.

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<vp-content/uploads/2022/02/jetson-model-zoo.png>

Source: www.elinux.org/Jetson_Zoo#Model_Zoo (https://www.elinux.org/Jetson_Zoo#Model_Zoo).

in insight into the inference benchmarks of different models tested on Nvidia Jetson compared with other popular boards such as Raspberry Pi, Intel Neural Compute Stick, and Google Edge TPU Dev Board.

(<https://learnopencv.com/wp-content/uploads/2022/02/Nvidia-jetson-benchmark-comparison.png>).

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[com/embedded/jetson-nano-dl-inference-benchmarks](https://developer.nvidia.com/embedded/jetson-nano-dl-inference-benchmarks) (<https://developer.nvidia.com/embedded/jetson-nano-dl-inference-benchmarks>).

of the most powerful embedded platforms, the Jetson Model Zoo is a good resource for deploying any embedded

9. Pinto Model Zoo (https://github.com/PINTO0309/PINTO_model_zoo)

[_\(<https://learnopencv.com/wp-content/uploads/2022/02/pinto-model-zoo.jpg>\)](https://learnopencv.com/wp-content/uploads/2022/02/pinto-model-zoo.jpg)

Source: user-images.githubusercontent.com/33194443/104581604-2592cb00-56a2-11eb-9610-5eaa0afb6e1f.png (<https://user-images.githubusercontent.com/33194443/104581604-2592cb00-56a2-11eb-9610-5eaa0afb6e1f.png>)

The PINTO Model Zoo (https://github.com/PINTO0309/PINTO_model_zoo) is created by Katsuya Hyodo, a programmer and Intel Software Innovator Program member. It is a repository that shares tuning results of trained models generated by Tensorflow.

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(<https://learnopencv.com/wp-content/uploads/2022/02/pinto-model-zoo-repo.png>).

Source: drive.google.com/file/d/1qpGnsizlYr_a5HEiBye8HQRpNwvO43Dd/view?usp=sharing
(https://drive.google.com/file/d/1qpGnsizlYr_a5HEiBye8HQRpNwvO43Dd/view?usp=sharing).

The zoo contains a huge amount of 252 optimized models covering a wide range of machine learning domains.

The provided models have been optimized using various techniques like Post-training quantization (Weight Quantization, Integer Quantization, Full Integer Quantization, Float16 Quantization) and Quantization-aware training.

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(<https://learnopencv.com/wp-content/uploads/2022/02/pinto-quantized-models.png>).

Source: github.com/PINTO0309/PINTO_model_zoo (https://github.com/PINTO0309/PINTO_model_zoo).

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any different platforms like TensorFlow Lite, OpenVINO, CoreML, TensorFlow.js, TF-TRT, MediaPipe, ONNX. Pinto Model Zoo want optimized versions of popular ML models.

[del zoo \(https://github.com/onnx/models\)](https://github.com/onnx/models).

[_ \(https://learnopencv.com/wp-content/uploads/2022/02/onnx-logo.jpg\)](https://learnopencv.com/wp-content/uploads/2022/02/onnx-logo.jpg)

Source: github.com/onnx/models/blob/master/resource/images/ONNX_logo_main.png
(https://github.com/onnx/models/blob/master/resource/images/ONNX_logo_main.png).

The [ONNX Model Zoo \(https://github.com/onnx/models\)](https://github.com/onnx/models) is a collection of pre-trained, state-of-the-art models in the ONNX format

Open Neural Network Exchange (ONNX) is an open standard format for representing machine learning models contributed by community members. It offers the benefit of interoperability and enables you to use your preferred framework with your chosen inference engine. You can think of it as a common language of models for all the popular ML frameworks to talk to each other.

It contains models for a number of different tasks in different domains:

Vision

- Image Classification
- Object Detection & Image Segmentation
- Body, Face & Gesture Analysis
- Image Manipulation

Language

- Machine Comprehension
- Machine Translation
- Language Modelling

Other

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(<https://learnopencv.com/wp-content/uploads/2022/02/onnx-model-examples.jpg>).

Source: github.com/onnx/models/blob/master/resource/images/ONNX_logo_main.png

(https://github.com/onnx/models/blob/master/resource/images/ONNX_logo_main.png).

Accompanying each model are Jupyter notebooks for model training and running inference with the trained model. The notebooks are written in Python and include the training dataset and references to the original paper that describes the model architecture.

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<https://modelplace.ai/>) **NUS: Modelplace.AI**
(<https://modelplace.ai/>).

Modelplace.AI (<https://modelplace.ai/>) is a marketplace for machine learning models and a platform for the community to share their custom-trained models. It has a growing collection of models for various Computer Vision tasks, be it Classification, Object Detection, Pose Estimation, Segmentation, or Text Detection.

[vp-content/uploads/2022/02/modelplace-ai-1.jpg](https://modelplace.ai/models)).

Source: modelplace.ai/models (<https://modelplace.ai/models>).

➤ for trying models without downloading

One significant factor that sets Modelplace.AI separate from the other model repositories is that you can use their web interface to try out the model of your liking with your custom images. You can also compare models that perform similar tasks against one another on standard **benchmarks**.

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your liking with your custom images. You can also compare models that perform similar tasks against one another on standard **benchmarks**.

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[_ \(https://learnopencv.com/wp-content/uploads/2022/02/modelplace-performance-demo.gif\)](https://learnopencv.com/wp-content/uploads/2022/02/modelplace-performance-demo.gif)

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modelplace.AI provides a convenient Cloud API you can use in your desktop, mobile, or edge application.

11.3 Import model as a Python wheel

Alternatively, you can choose to download the optimized version of that model depending on the platform you want to deploy it on. For the Python environment, they package the models as a Python wheel file so you can get the model up and running swiftly with only a few lines of code.

To know more about Modelplace.AI, check out our [blog post \(/model-selection-and-benchmarking-with-modelplace-ai/\)](#), where we detail its features and how you can use it.

Conclusion

Start taking advantage of these resources whenever starting with a Machine learning application and check if there exists a similar model that you can use or build upon, instead of training your models from scratch to speed up the development and deployment process.

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Opencv Courses

CV4Faces (Old)

In 2007, right after finishing my Ph.D., I co-founded IAAZ Inc. with my advisor Dr. David Kriegman and Kevin Barnes. The scalability, and robustness of our computer vision and machine learning algorithms have been put to rigorous test by more than 100M users who have tried our products.

(<https://learnopencv.com/about/>)

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