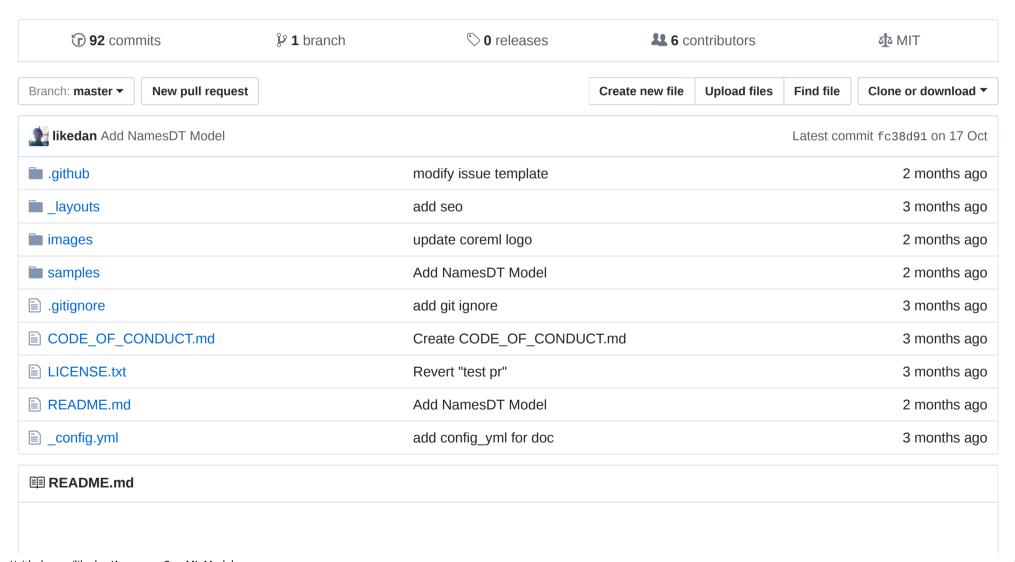📖 likedan / **Awesome-CoreML-Models**

Largest list of models for Core ML (for iOS 11+)

#coreml #coreml-model #apple #machine-learning #curated-list #coreml-framework #coreml-models #coremltools #awesome-list #models #model #download #awesome #core-ml #ml #caffe #caffemodel #tensorflow-models #ios #ios11

ⓘ **92** commits	⑂ **1** branch	◌ **0** releases	👥 **6** contributors	⚖ MIT

Branch: master ▾	New pull request		Create new file	Upload files	Find file	Clone or download ▾

👤 **likedan** Add NamesDT Model		Latest commit fc38d91 on 17 Oct
📁 .github	modify issue template	2 months ago
📁 _layouts	add seo	3 months ago
📁 images	update coreml logo	2 months ago
📁 samples	Add NamesDT Model	2 months ago
📄 .gitignore	add git ignore	3 months ago
📄 CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md	3 months ago
📄 LICENSE.txt	Revert "test pr"	3 months ago
📄 README.md	Add NamesDT Model	2 months ago
📄 _config.yml	add config_yml for doc	3 months ago

📖 **README.md**

Awesome Core ML Models

Since iOS 11, Apple released Core ML framework to help developers integrate machine learning models into applications.
The official documentation

We've put up the largest collection of machine learning models in Core ML format, to help iOS, macOS, tvOS, and watchOS developers experiment with machine learning techniques. We've created a site with better visualization of the models CoreML.Store, and are working on more advance features.

If you've converted a Core ML model, feel free to submit an issue.
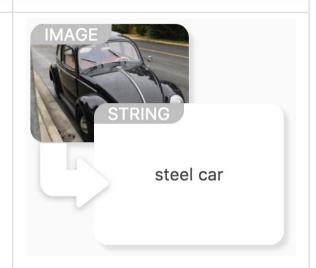
Models

Image Processing

Models that takes image data as input and output useful information about the image.

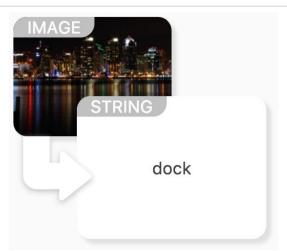|		
MobileNet The network from the paper 'MobileNets: Efficient Convolutional Neural Networks for Mobile Vision Applications', trained on the ImageNet dataset. Download | Demo | Reference	**GoogLeNetPlaces** Detects the scene of an image from 205 categories such as airport, bedroom, forest, coast etc. Download | Demo | Reference	**Inceptionv3** Detects the dominant objects present in an image from a set of 1000 categories such as trees, animals, food, vehicles, person etc. The top-5 error from the original publication is 5.6%. Download | Demo | Reference

Resnet50

Detects the dominant objects present in an image from a set of 1000 categories such as trees, animals, food, vehicles, person etc. The top-5 error from the original publication is 7.8%.

Download | Demo | Reference

VGG16

Detects the dominant objects present in an image from a set of 1000 categories such as trees, animals, food, vehicles, person etc. The top-5 error from the original publication is 7.4%.

Download | Demo | Reference
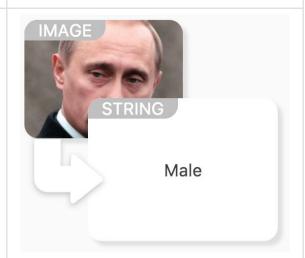
CarRecognition

Predict the brand & model of a car.

Download | Demo | Reference

TinyYOLO

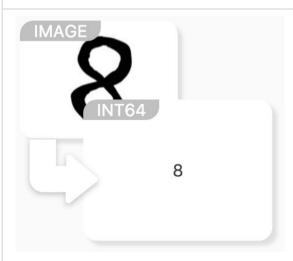The Tiny YOLO network from the paper 'YOLO9000: Better, Faster, Stronger' (2016), arXiv:1612.08242
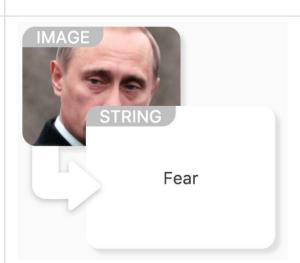
Download | Demo | Reference

AgeNet

Age Classification using Convolutional Neural Networks

Download | Demo | Reference

GenderNet

Gender Classification using Convolutional Neural Networks

Download | Demo | Reference

MNIST

Predicts a handwritten digit.

Download | Demo | Reference

CNNEmotions

Emotion Recognition in the Wild via Convolutional Neural Networks and Mapped Binary Patterns

Download | Demo | Reference

VisualSentimentCNN

Fine-tuning CNNs for Visual Sentiment Prediction

Download | Demo | Reference

Food101

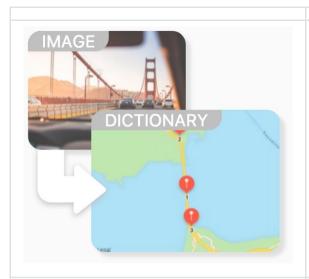This model takes a picture of a food and predicts its name

Download | Demo | Reference

Oxford102

Classifying images in the Oxford 102 flower dataset with CNNs

Download | Demo | Reference

FlickrStyle

Finetuning CaffeNet on Flickr Style

Download | Demo | Reference

great model to come

RN1015k500

Predict the location where a picture was taken.

Download | Demo | Reference

Nudity

Classifies an image either as NSFW (nude) or SFW (not nude)

Download | Demo | Reference

Style Transfer

Models that transform image to specific style.

HED_so

Holistically-Nested Edge Detection.
Side outputs

Download | Demo | Reference

FNS-Candy

Feedforward style transfer

https://github.com/jcjohnson/fast-neural-style

Download | Demo | Reference

FNS-Feathers

Feedforward style transfer

https://github.com/jcjohnson/fast-neural-style

Download | Demo | Reference

FNS-La-Muse

Feedforward style transfer
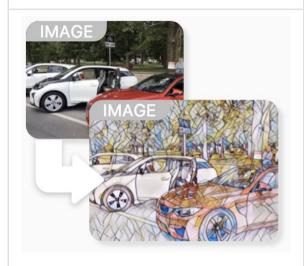
https://github.com/jcjohnson/fast-neural-style

Download | Demo | Reference

FNS-The-Scream

Feedforward style transfer

https://github.com/jcjohnson/fast-neural-style

Download | Demo | Reference

FNS-Udnie

Feedforward style transfer

https://github.com/jcjohnson/fast-neural-style

Download | Demo | Reference

great model to come

FNS-Mosaic

Feedforward style transfer

https://github.com/jcjohnson/fast-neural-style

Download | Demo | Reference

AnimeScale2x

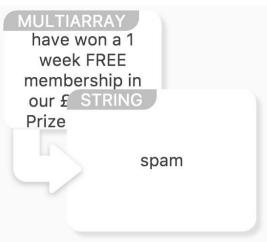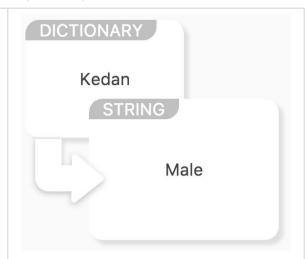Process a bicubic-scaled anime-style artwork

Download | Demo | Reference

Text Analysis

Models that takes text data as input and output useful information about the text.

SentimentPolarity

Sentiment polarity LinearSVC.

Download | Demo | Reference

MessageClassifier

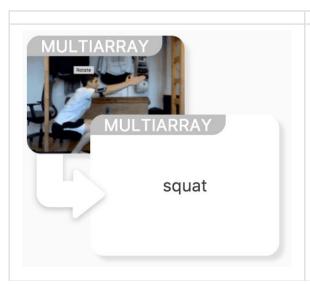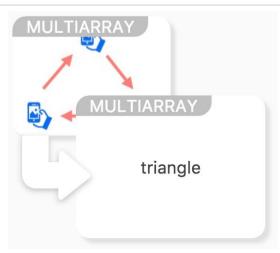Detect whether a message is spam.

Download | Demo | Reference

NamesDT

Gender Classification using DecisionTreeClassifier

Download | Demo | Reference

Others

Exermote Predicts the exercise, when iPhone is worn on right upper arm. Download | Demo | Reference	**GestureAI** GestureAI Download | Demo | Reference	

Supported formats

List of model formats that could be converted to Core ML with examples

- Caffe
- Keras
- XGBoost
- Scikit-learn
- MXNet
- LibSVM
- Torch7

The Gold

Collections of machine learning models that could be converted to Core ML

- Caffe Model Zoo - Big list of models in Caffe format.
- TensorFlow Models - Models for TensorFlow.
- TensorFlow Slim Models - Another collection of TensorFlow Models.
- MXNet Model Zoo - Collection of MXNet models.

Individual machine learning models that could be converted to Core ML. We'll keep adjusting the list as they become converted.

- LaMem Score the memorability of pictures.
- ILGnet The aesthetic evaluation of images.
- Colorization Automatic colorization using deep neural networks.
- Illustration2Vec Estimating a set of tags and extracting semantic feature vectors from given illustrations.
- CTPN Detecting text in natural image.
- Image Analogy Find semantically-meaningful dense correspondences between two input images.
- iLID Automatic spoken language identification.
- Fashion Detection Cloth detection from images.
- Saliency The prediction of salient areas in images has been traditionally addressed with hand-crafted features.
- Face Detection Detect face from image.
- mtcnn Joint Face Detection and Alignment.
- deephorizon Single image horizon line estimation.

Contributing and License

- See the guide
- Distributed under the MIT license. See LICENSE for more information.