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This is a curated list of tutorials, projects, libraries, videos, papers, books and anything related to the incredible [PyTorch](#). Feel free to make a pull request to contribute to this list.

Tutorials

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Visualization

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- [Lucent: Lucid adapted for PyTorch](#)

Explainability

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Object Detection

- [MMDetection Object Detection Toolbox](#)
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- [Whale Detector](#)

Long-Tailed / Out-of-Distribution Recognition

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- [Invariant Risk Minimization](#)
- [Training Confidence-Calibrated Classifier for Detecting Out-of-Distribution Samples](#)
- [Deep Anomaly Detection with Outlier Exposure](#)
- [Large-Scale Long-Tailed Recognition in an Open World](#)
- [Principled Detection of Out-of-Distribution Examples in Neural Networks](#)
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Energy-Based Learning

- [EBGAN, Energy-Based GANs](#)
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Missing Data

- [BRITS: Bidirectional Recurrent Imputation for Time Series](#)

Architecture Search

- [DenseNAS](#)
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- [Efficient Neural Architecture Search \(ENAS\)](#)
- [EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks](#)

Optimization

- [AccSGD, AdaBound, AdaMod, DiffGrad, Lamb, NovoGrad, RAdam, SGDW, Yogi and more](#)
- [Lookahead Optimizer: k steps forward, 1 step back](#)
- [RAdam, On the Variance of the Adaptive Learning Rate and Beyond](#)
- [Over9000, Comparison of RAdam, Lookahead, Novograd, and combinations](#)
- [AdaBound, Train As Fast as Adam As Good as SGD](#)
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Quantization

- [Additive Power-of-Two Quantization: An Efficient Non-uniform Discretization For Neural Networks](#)

Quantum Machine Learning

- [Tor10, generic tensor-network library for quantum simulation in PyTorch](#)
- [PennyLane, cross-platform Python library for quantum machine learning with PyTorch interface](#)

Neural Network Compression

- [Bayesian Compression for Deep Learning](#)
- [Neural Network Distiller by Intel AI Lab: a Python package for neural network compression research](#)
- [Learning Sparse Neural Networks through L0 regularization](#)

- [Energy-constrained Compression for Deep Neural Networks via Weighted Sparse Projection and Layer Input Masking](#)
- [EigenDamage: Structured Pruning in the Kronecker-Factored Eigenbasis](#)
- [Pruning Convolutional Neural Networks for Resource Efficient Inference](#)
- [Pruning neural networks: is it time to nip it in the bud? \(showing reduced networks work better\)](#)

Facial, Action and Pose Recognition

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- [DGC-Net: Dense Geometric Correspondence Network](#)
- [High performance facial recognition library on PyTorch](#)
- [FaceBoxes, a CPU real-time face detector with high accuracy](#)
- [How far are we from solving the 2D & 3D Face Alignment problem? \(and a dataset of 230,000 3D facial landmarks\)](#)
- [Learning Spatio-Temporal Features with 3D Residual Networks for Action Recognition](#)
- [PyTorch Realtime Multi-Person Pose Estimation](#)
- [SphereFace: Deep Hypersphere Embedding for Face Recognition](#)
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- [Shufflenet V2 by Face++ with better results than paper](#)
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- [OpenFace in PyTorch](#)
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Super resolution

- [Enhanced Deep Residual Networks for Single Image Super-Resolution](#)
- [Superresolution using an efficient sub-pixel convolutional neural network](#)
- [Perceptual Losses for Real-Time Style Transfer and Super-Resolution](#)

Synthesizing Views

- [NeRF, Neural Radian Fields, Synthesizing Novels Views of Complex Scenes](#)

Voice

- [Google AI VoiceFilter: Targeted Voice Separation by Speaker-Conditioned Spectrogram Masking](#)

Medical

- [Medical Zoo, 3D multi-modal medical image segmentation library in PyTorch](#)
- [U-Net for FLAIR Abnormality Segmentation in Brain MRI](#)
- [Genomic Classification via ULMFiT](#)
- [Deep Neural Networks Improve Radiologists' Performance in Breast Cancer Screening](#)
- [Delira, lightweight framework for medical imaging prototyping](#)
- [V-Net: Fully Convolutional Neural Networks for Volumetric Medical Image Segmentation](#)
- [Medical Torch, medical imaging framework for PyTorch](#)

3D Segmentation, Classification and Regression

- [Kaolin, Library for Accelerating 3D Deep Learning Research](#)
- [PointNet: Deep Learning on Point Sets for 3D Classification and Segmentation](#)

Video Recognition

- [Dancing to Music](#)
- [Devil Is in the Edges: Learning Semantic Boundaries from Noisy Annotations](#)
- [Deep Video Analytics](#)
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Recurrent Neural Networks (RNNs)

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- [Averaged Stochastic Gradient Descent with Weight Dropped LSTM](#)
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- [Quasi-Recurrent Neural Network \(QRNN\)](#)
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- [Attentive Recurrent Comparators](#)
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 - [Vanilla Sequence to Sequence models](#)
 - [Attention based Sequence to Sequence models](#)

- iii. Faster attention mechanisms using dot products between the final encoder and decoder hidden states

Convolutional Neural Networks (CNNs)

- [LegoNet: Efficient Convolutional Neural Networks with Lego Filters](#)
- [MeshCNN, a convolutional neural network designed specifically for triangular meshes](#)
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- [PyTorch Image Models, ResNet/ResNeXT, DPN, MobileNet-V3/V2/V1, MNASNet, Single-Path NAS, FBNet](#)
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- [Big collection of pretrained classification models](#)
- [PyTorch Image Classification with Kaggle Dogs vs Cats Dataset](#)

- [CIFAR-10 on Pytorch with VGG, ResNet and DenseNet](#)
- [Base pretrained models and datasets in pytorch \(MNIST, SVHN, CIFAR10, CIFAR100, STL10, AlexNet, VGG16, VGG19, ResNet, Inception, SqueezeNet\)](#)
- [NVIDIA/unsupervised-video-interpolation](#)

Segmentation

- [Detectron2 by FAIR](#)
- [Pixel-wise Segmentation on VOC2012 Dataset using PyTorch](#)
- [Pywick - High-level batteries-included neural network training library for Pytorch](#)
- [Improving Semantic Segmentation via Video Propagation and Label Relaxation](#)
- [Super-BPD: Super Boundary-to-Pixel Direction for Fast Image Segmentation](#)

Geometric Deep Learning: Graph & Irregular Structures

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Sorting

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Ordinary Differential Equations Networks

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- [GRU-ODE-Bayes: continuous modelling of sporadically-observed time series](#)

Multi-task Learning

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- [Task-based End-to-end Model Learning](#)

GANs, VAEs, and AEs

- [Mimicry, PyTorch Library for Reproducibility of GAN Research](#)
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- c. InfoGAN
 - d. Wasserstein GAN
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- torchgan: Framework for modelling Generative Adversarial Networks in Pytorch

Unsupervised Learning

- Unsupervised Embedding Learning via Invariant and Spreading Instance Feature
- AND: Anchor Neighbourhood Discovery

Adversarial Attacks

- Deep Neural Networks are Easily Fooled: High Confidence Predictions for Unrecognizable Images
- Explaining and Harnessing Adversarial Examples
- AdverTorch - A Toolbox for Adversarial Robustness Research

Style Transfer

- Detecting Adversarial Examples via Neural Fingerprinting
- A Neural Algorithm of Artistic Style
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- Fast Neural Style Transfer

- [Draw like Bob Ross](#)

Image Captioning

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Transformers

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Reasoning

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Question and Answering

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- [Deal or No Deal? End-to-End Learning for Negotiation Dialogues](#)
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Speech Generation and Recognition

- [PyTorch-Kaldi Speech Recognition Toolkit](#)
- [WaveGlow: A Flow-based Generative Network for Speech Synthesis](#)
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Sentiment Analysis

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- [Finetuning BERT for Sentiment Analysis](#)

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- [Image Augmentation Is All You Need: Regularizing Deep Reinforcement Learning from Pixels](#)
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- [EGG: Emergence of lanGuage in Games, quickly implement multi-agent games with discrete channel communication](#)

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- [Reinforcement learning models using Gym and Pytorch](#)
- [SLM-Lab: Modular Deep Reinforcement Learning framework in PyTorch](#)

Deep Bayesian Learning and Probabilistic Programming

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- [Subspace Inference for Bayesian Deep Learning](#)
- [Bayesian Deep Learning with Variational Inference Package](#)
- [Probabilistic Programming and Statistical Inference in PyTorch](#)
- [Bayesian CNN with Variational Inference in PyTorch](#)

Spiking Neural Networks

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Anomaly Detection

- [Detection of Accounting Anomalies using Deep Autoencoder Neural Networks](#)

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Time Series

- [Dual Self-Attention Network for Multivariate Time Series Forecasting](#)
- [DILATE: DIstortion Loss with shApe and tImE](#)
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- [Spatio-Temporal Neural Networks for Space-Time Series Modeling and Relations Discovery](#)

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- [Train longer, generalize better: closing the generalization gap in large batch training of neural networks](#)
- [FreezeOut: Accelerate Training by Progressively Freezing Layers](#)
- [Binary Stochastic Neurons](#)
- [Compact Bilinear Pooling](#)
- [Mixed Precision Training in PyTorch](#)

DNN Applications in Chemistry and Physics

- [Wave Physics as an Analog Recurrent Neural Network](#)
- [Neural Message Passing for Quantum Chemistry](#)
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- [Deep Learning for Physical Processes: Integrating Prior Scientific Knowledge](#)

New Thinking on General Neural Network Architecture

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API Abstraction

- [Torch Layers, Shape inference for PyTorch, SOTA Layers](#)
- [Hummingbird, run trained scikit-learn models on GPU with PyTorch](#)

Low Level Utilities

- [TorchSharp](#), .NET API with access to underlying library powering PyTorch

PyTorch Utilities

- [PyTorch Metric Learning](#)
- [Kornia: an Open Source Differentiable Computer Vision Library for PyTorch](#)
- [BackPACK](#) to easily Extract Variance, Diagonal of Gauss-Newton, and KFAC
- [PyHessian](#) for Computing Hessian Eigenvalues, trace of matrix, and ESD
- [Hessian in PyTorch](#)
- [Differentiable Convex Layers](#)
- [Albumentations: Fast Image Augmentation Library](#)
- [Higher](#), obtain higher order gradients over losses spanning training loops
- [Neural Pipeline](#), Training Pipeline for PyTorch
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- [Sparse Distributions](#)
- [Diffdist](#), Adds Support for Differentiable Communication allowing distributed model parallelism
- [HessianFlow](#), Library for Hessian Based Algorithms
- [Texar](#), PyTorch Toolkit for Text Generation
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Contributions

Do feel free to contribute!

You can raise an issue or submit a pull request, whichever is more convenient for you. The guideline is simple: just follow the format of the previous bullet point.