Youtube Series

Channel	Title
Computerphile	Data Analysis Series
3Blue1Brown	Deep Learning Series
StatQuest	Deep Learning Series
Computerphile	Neural Networks Series
Deep Lizard	Machine Learning Series
	RL Series
David Silver	Basics of RL Course
Openai	DeepRL BootCamp
Deep Lizard	DeepLearning with pytorch series

Free Books

Ian Goodfellow and Yoshua Bengio and Aaron Courville	Deep Learning
ASTON ZHANG, ZACHARY C. LIPTON, MU LI, AND ALEXANDER J. SMOLA	Dive into Deep Learning

Articles/Blogs/Videos/Info

Topic/Title	Link
Python	https://docs.python.org/3/tutorial/
- numpy	https://www.youtube.com/watch?v=xECXZ3tyONo
- for data science	https://www.youtube.com/watch?v=B46jb5Q2NXE
Jupyter notebook	https://www.datacamp.com/community/tutorials/tutorial-jupyter-
- cheetsheet	cheetsheet
Softmax and Cross Entropy	https://levelup.gitconnected.com/killer-combo-softmax-and-
Github	https://youtu.be/MJUJ4wbFm_A
Deep Learning Fundementals (Chapter 3)	https://monash.figshare.
Convolutions	https://towardsdatascience.com/applied-deep-learning-part-4-
Convolution Visualizer	https://ezyang.github.io/convolution-visualizer
Transposed convolutions	https://medium.com/apache-mxnet/transposed-convolutions-
Machine Learning - Computerphile	https://youtu.be/qDbpYUbf3e0
skymind AI wiki	https://skymind.ai/wiki/
MLP XOR	https://nasirml.wordpress.com/2017/12/08/multi-layer-perceptron-in-tensorflow-part-1-xor/
	https://medium.com/@jayeshbahire/the-xor-problem-in-neural-
Perceptron gif	https://commons.wikimedia.org/wiki/File:
Pytorch official tutorials	https://pytorch.org/tutorials/
PyTorch Autograd	https://pytorch.org/tutorials/beginner/blitz/autograd_tutorial.
	https://youtu.be/MswxJw-8PvE
Receptive field explaination	https://medium.com/mlreview/a-guide-to-receptive-field-
CNN overview	https://towardsdatascience.com/a-comprehensive-guide-to-
RNNs	https://medium.com/explore-artificial-intelligence/an-
	https://towardsdatascience.com/recurrent-neural-networks-
Auto Encoders	https://medium.com/intuitive-deep-learning/autoencoders-
VAEs	https://youtu.be/9zKuYvjFFS8
	https://towardsdatascience.com/intuitively-understanding-
	https://medium.com/@sikdar_sandip/implementing-a-
Attention Mechanism	https://medium.com/syncedreview/a-brief-overview-of-
Self Attention	https://medium.com/@Alibaba_Cloud/self-attention-
	https://towardsdatascience.com/not-just-another-gan-paper-
GANs	https://youtu.be/dCKbRCUyop8
	https://medium.com/@jonathan_hui/gan-whats-generative-
	https://machinelearningmastery.com/what-are-generative-
	https://towardsdatascience.com/must-read-papers-on-gans-
- Computerphile	https://youtu.be/Sw9r8CL98N0
- Doodle GAN	https://youtu.be/eEFlk6sSv88
- CycleGAN	https://youtu.be/T-lBMrjZ3_0
RL	http://karpathy.github.io/2016/05/31/rl/
	https://towardsdatascience.com/introduction-to-various-
Information Theory of Deep Learning - One Theory of why deeper is	https://youtu.be/XL07WEc2TRI
Deep Dream	https://youtu.be/BsSmBPmPeYQ
3D neural network visualisation	https://youtu.be/3JQ3hYko51Y
Visualizing High-Dimensional Space	https://youtu.be/wvsE8jm1GzE
Slopes of Machine Learning - Computerphile (computational trees)	https://youtu.be/Jd55buI1VHo
Will computers ever think like human beings?	https://youtu.be/J63mKverb8w
Visualizing a CNN	https://poloclub.github.io/cnn-explainer/

Basic Pytorch Code Examples

Pytorch official tutorials - Datasets and Data loaders MPL, Classifiers, GANs, RNN	https://pytorch.org/tutorials/

Datasets

Kaggle	https://www.kaggle.com/datasets

Videos

Barbara Oakley: "Learning How to Learn"	https://www.youtube.com/watch?v=vd2dtkMINIw
Building Neural Network Models That Can Reason	https://www.youtube.com/watch?v=-2JRiv3Mycs
The Thousand Brains Theory	https://www.youtube.com/watch?v=5LFo36g4Lug