



Artificial Intelligence Bookmarks [#AwesomeList]

Title	# Property	Property 1	Url
Gentle Dive into Math Behind Convolutional Neural Networks	101		https://towardsdatascience.com/gentle-dive-into-math-behind-convolutional-neural-networks-79a07dd44cfc
How to use transfer learning and fine-tuning in Keras and TensorFlow to build an image recognition...	0		https://deeplearningsandbox.com/how-to-use-transfer-learning-and-fine-tuning-in-keras-and-tensorflow-to-
Deep Learning for Object Detection: A Comprehensive Review	60		https://towardsdatascience.com/deep-learning-for-object-detection-a-comprehensive-review-73930816d8d
A gallery of interesting Jupyter Notebooks · jupyter/jupyter Wiki	96		https://github.com/jupyter/jupyter/wiki/A-gallery-of-interesting-Jupyter-Notebooks#machine-learning-statistics
Sara Robinson	141		https://sararobinson.dev/2020/04/30/baking-machine-learning.html#recipe
How to apply machine learning and deep learning methods to audio analysis	125		https://medium.com/comet-ml/applying-machine-learning-to-audio-analysis-utm-source-kdnuggets11-19-e160bc
NeurIPS · SlidesLive	127		https://slideslive.com/neurips/
Research Blog: Eager Execution: An imperative, define-by-run interface to TensorFlow	24		https://research.googleblog.com/2017/10/eager-execution-imperative-define-by.html
The Illustrated GPT-2 (Visualizing Transformer Language Models) – Jay Alammar – Visualizing machine learning one concept at a time	116		https://jalamar.github.io/illustrated-gpt2/
Secure Computations as Dataflow Programs - Cryptography and Machine Learning	48		https://mortendahl.github.io/2018/03/01/secure-computation-as-dataflow-programs/
Advanced Visualization for Data Scientists with Matplotlib	99		https://medium.com/sfu-big-data/advanced-visualization-for-data-scientists-with-matplotlib-15c28863c41c
More Effective Transfer Learning for NLP	79		https://www.kdnuggets.com/2018/10/more-effective-transfer-learning-nlp.html
CS294-158 Deep Unsupervised Learning Spring 2018	97		https://sites.google.com/view/berkeley-cs294-158-sp19/home?fbclid=IwAR1kZ2ySKVILpfWjWsvKGiyEUOWi
An Easy Guide to build new TensorFlow Datasets and Estimator with Keras Model DLology	28		https://www.dlology.com/blog/an-easy-guide-to-build-new-tensorflow-datasets-and-estimator-with-keras-m
TFX: A TensorFlow-based production scale machine learning platform the morning paper	26		https://blog.aconyer.org/2017/10/03/tfx-a-tensorflow-based-production-scale-machine-learning-platform/
Daemon vs Upstart for python script - Stack Overflow	7		https://stackoverflow.com/questions/17747605/daemon-vs-upstart-for-python-script
Predicting physical activity based on smartphone sensor data using CNN + LSTM	54		https://blog.goodaudience.com/predicting-physical-activity-based-on-smartphone-sensor-data-using-cnn-lstm
dspace.mit.edu/bitstream/handle/1721.1/41487/AI_WP_316.pdf	135		http://dspace.mit.edu/bitstream/handle/1721.1/41487/AI_WP_316.pdf
Transfer Learning in NLP – Feedly Blog	69		https://blog.feedly.com/transfer-learning-in-nlp/
Serving Google BERT in Production using Tensorflow and ZeroMQ · Han Xiao Tech Blog – Deep Learning, NLP, AI	90		https://hanxiao.github.io/2019/01/02/Serving-Google-BERT-in-Production-using-Tensorflow-and-ZeroMQ/
14 NLP Research Breakthroughs You Can Apply To Your Business	94		https://www.topbots.com/most-important-ai-nlp-research/?utm_campaign=meetedgar&utm_medium=social&
Machine Learning using Google Cloud ML Engine. – Gautam Karmakar – Medium	80		https://medium.com/@gautam.karmakar/machine-learning-using-google-cloud-ml-engine-465413d08510
Research Blog: Using Evolutionary AutoML to Discover Neural Network Architectures	47		https://research.googleblog.com/2018/03/using-evolutionary-automl-to-discover.html
Reinforcement Learning - Artificial Intelligence	40		https://leonardoaraujasantos.gitbooks.io/artificial-intelligence/content/reinforcement_learning.html
(74) Stanford Seminar - "Deep Learning for Dummies" Carey Nachenberg of Symantec and UCLA CS - YouTube	12		https://www.youtube.com/watch?v=hv1ptUuUCdU
(620) Learning to Communicate with Deep Multi-Agent Reinforcement Learning – Jakob Foerster - YouTube	3		https://www.youtube.com/watch?v=xL-GKD49FXs
Kubernetes + GPUs 🍷 Tensorflow – Intuition Machine – Medium	34		https://medium.com/intuitionmachine/kubernetes-gpus-tensorflow-8696232862ca
The Illustrated Transformer – Jay Alammar – Visualizing machine learning one concept at a time	115		http://jalamar.github.io/illustrated-transformer/
Code2Pix - Deep Learning Compiler for Graphical User Interfaces	58		https://towardsdatascience.com/code2pix-deep-learning-compiler-for-graphical-user-interfaces-1256c3469
Fine-tuning Convolutional Neural Network on own data using Keras Tensorflow – CV-Tricks.com	43		http://cv-tricks.com/keras/fine-tuning-tensorflow/
AI and Deep Learning in 2017 – A Year in Review – WildML	38		http://www.wildml.com/2017/12/ai-and-deep-learning-in-2017-a-year-in-review/
How to Port-Forward Jupyter Notebooks – Scott Hawley – Development Blog	103		https://drscotthawley.github.io/How-To-Port-Forward-Jupyter-Notebooks/
Training and Serving ML models with tf.keras – TensorFlow – Medium	81		https://medium.com/tensorflow/training-and-serving-ml-models-with-tf-keras-fd975cc0fa27
Distributed TensorFlow: A Gentle Introduction	29		http://amid.fish/distributed-tensorflow-a-gentle-introduction
How to deploy TensorFlow models to production using TF Serving	82		https://medium.freecodecamp.org/how-to-deploy-tensorflow-models-to-production-using-tf-serving-4b4b7f
How to Quickly Train a Text-Generating Neural Network for Free	57		http://minimaxir.com/2018/05/text-neural-networks/
Big Picture: Google Visualization Research	46		https://research.google.com/bigpicture/

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4 Sequence Encoding Blocks You Must Know Besides RNN/LSTM in Tensorflow · Han Xiao Tech Blog - Deep Learning, Tensorflow, Machine Learning and more!	61			https://hanxiao.github.io/2018/06/25/4-Encoding-Blocks-You-Need-to-Know-Besides-LSTM-RNN-in-Tensorflow/
ml4a-guides/g_learning.ipynb at experimental · ml4a/ml4a-guides	66			https://github.com/ml4a/ml4a-guides/blob/experimental/notebooks/g_learning.ipynb
New Theory Cracks Open the Black Box of Deep Learning Quanta Magazine	17			https://www.quantamagazine.org/new-theory-cracks-open-the-black-box-of-deep-learning-20170921/
Weight Agnostic Neural Networks	113			https://weightagnostic.github.io/
Customer churn prediction in telecom using machine learning in big data platform	102			https://journalofbigdata.springeropen.com/track/pdf/10.1186/s40537-019-0191-6
Practice Quantum Computing Brilliant	111			https://brilliant.org/courses/quantum-computing/
(160) Visual Interpretability of CNNs Himanshu Rawlani PyData Pune Meetup July 2019 - YouTube	130			https://www.youtube.com/watch?v=fyeQGpXlrc&t=544s
Deep Reinforcement Learning: Pong from Pixels	50			http://karpathy.github.io/2016/05/31/rl/
Production-ready Docker images	122			https://pythonspeed.com/docker/
Comprehensive data exploration with Python Kaggle	27			https://www.kaggle.com/pmarcelino/comprehensive-data-exploration-with-python
7 advanced pandas tricks for data science - Towards Data Science	137			https://towardsdatascience.com/7-advanced-tricks-in-pandas-for-data-science-41a71632b5d9
Convolutional Neural Network based Image Colorization using OpenCV Learn OpenCV	68			https://www.learnopencv.com/convolutional-neural-network-based-image-colorization-using-opencv/
A Recipe for Training Neural Networks	110			https://karpathy.github.io/2019/04/25/recipe/?fbclid=IwAR1_G5KIP_3JlH2Nexo1Qf0zxxK30AjrV5P9vbAtPluFe
Joel Grus - Fizz Buzz in Tensorflow	129			https://joelgrus.com/2016/05/23/fizz-buzz-in-tensorflow/
IML-Sequence	65			https://indico.cern.ch/event/722319/contributions/3001310/attachments/1661268/2661638/IML-Sequence.p
Tensorly: Tensor learning in Python	32			https://tensorly.github.io/stable/user_guide/index.html
Beyond Interactive: Notebook Innovation at Netflix - Netflix TechBlog - Medium	84			https://medium.com/netflix-techblog/notebook-innovation-591ee3221233
Анализ тональности текстов с помощью сверточных нейронных сетей / Блог компании Mail.Ru Group / Хабр	75			https://habr.com/company/mailru/blog/417767/
Blockchains: How They Work and Why They'll Change the World - IEEE Spectrum	9			https://spectrum.ieee.org/computing/networks/blockchains-how-they-work-and-why-theyll-change-the-world
FavioVazquez/ds-cheatsheets: List of Data Science Cheatsheets to rule the world	100			https://github.com/FavioVazquez/ds-cheatsheets
https://towardsdatascience.com/from-pre-trained-word-embeddings-to-pre-trained-language-models-focus-on-bert-343815627598	128			https://towardsdatascience.com/from-pre-trained-word-embeddings-to-pre-trained-language-models-focus-on-bert-343815627598
TensorFlow & reflective tape : why I'm bad at basketball 🏀	107			chrome-extension://klbibkeccnjljkjkiokjodocebajanakg/suspended.html#ttl=TensorFlow%20%26%20reflective%20tape%20reflective-tape-why-im-bad-at-basketball-a30a923332de
Indaba2019 NLP Talk.pdf - Google Drive	118			https://drive.google.com/file/d/12rXqPMb5MjPyCfj8fplHskZXQuQiykmu/view
What is TensorFlow? OpenSource.com	20			https://opensource.com/article/17/11/intro-tensorflow?sc_cid=7016000000127ECAAY
Memo's Island: A simple and interpretable performance measure for a binary classifier	131			https://memosisland.blogspot.com/2020/02/a-simple-and-interpretable-performance.html
Dept. of Computer Sci.: Module Handbook for the Bachelor and Master Programmes	93			chrome-extension://klbibkeccnjljkjkiokjodocebajanakg/suspended.html#ttl=Dept.%20of%20Computer%20Sci.kl.de/en/studium/lehrveranstaltungen/modulhb/#mod-89-7157
Deep Learning - Mohit Jain	74			https://mohitjain.me/category/deep-learning/
The Illustrated Word2vec - Jay Alammar - Visualizing machine learning one concept at a time	105			https://jalamar.github.io/illustrated-word2vec/?utm_campaign=NLP%20News&utm_medium=email&utm_sou
Mask R-CNN with OpenCV - PyImageSearch	85			https://www.pyimagesearch.com/2018/11/19/mask-r-cnn-with-opencv/?fbclid=IwAR2fLc3913dP3h-OPCDDk
Research Blog: The Google Brain Team - Looking Back on 2017 (Part 1 of 2)	39			https://research.googleblog.com/2018/01/the-google-brain-team-looking-back-on.html?m=1
Common statistical tests are linear models (or: how to teach stats)	142			https://lindeloev.github.io/tests-as-linear/
Deep Learning Book Notes, Chapter 3 (part 1): Introduction to Probability	53			https://towardsdatascience.com/deep-learning-book-notes-chapter-3-part-1-introduction-to-probability-49d
Transformers are Graph Neural Networks NTU Graph Deep Learning Lab	136			https://graphdeeplearning.github.io/post/transformers-are-gnns/
Google Developers Blog: Introduction to TensorFlow Datasets and Estimators	30			https://developers.googleblog.com/2017/09/introducing-tensorflow-datasets.html
Automated front-end development using deep learning	62			https://blog.insightdatascience.com/automated-front-end-development-using-deep-learning-3169dd086e8/
CNN Explainer	139			https://poloclub.github.io/cnn-explainer/
2D & 3D Visualization using NCE Cost Kaggle	16			https://www.kaggle.com/huseinzol05/2d-3d-visualization-using-nce-cost
Data-Science-Periodic-Table.pdf	132			https://s3.amazonaws.com/assets.datacamp.com/blog_assets/Data-Science-Periodic-Table.pdf
Google AI Blog: Transformer-XL: Unleashing the Potential of Attention Models	106			https://ai.googleblog.com/2019/01/transformer-xl-unleashing-potential-of.html
Writing a Generic TensorFlow Serving Client for Tensorflow Serving models	133			https://medium.com/data-science-engineering/productising-tensorflow-keras-models-via-tensorflow-serving-1584180740&fbclid=IwAR0y9GxhA76cBkosJ1Cd5KNix0BmeaDc6QejkPkfPDBfsynNgm4vCovY5w&branch
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Object Detection in Google Colab with Custom Dataset	98			https://hackernoon.com/object-detection-in-google-colab-with-custom-dataset-5a7bb2b0e97e
Meet Horovod: Uber's Open Source Distributed Deep Learning Framework	14			https://eng.uber.com/horovod/
Welcoming the Era of Deep Neuroevolution - Uber Engineering Blog	35			https://eng.uber.com/deep-neuroevolution/
Estimating an Optimal Learning Rate For a Deep Neural Network - Medium	21			https://medium.com/@surmenok/estimating-optimal-learning-rate-for-a-deep-neural-network-ce32f2556ce0
Topic Modeling with LSA, PLSA, LDA & lda2Vec	108			https://www.topbots.com/nlu-topic-modeling/?utm_campaign=meetedgar&utm_medium=social&utm_source=
Understanding Hinton's Capsule Networks. Part I: Intuition.	22			https://medium.com/@pechyonkin/understanding-hintons-capsule-networks-part-i-intuition-b4b559d1159b
How to deploy Machine Learning models with TensorFlow. Part 1 - make your model ready for serving.	1			https://medium.com/towards-data-science/how-to-deploy-machine-learning-models-with-tensorflow-part-1-
The key lessons from "Where Good Ideas Come From" by Steven Johnson	123			https://medium.com/key-lessons-from-books/the-key-lessons-from-where-good-ideas-come-from-by-steve
Run python script from init.d	6			http://www.pietervanos.net/knowledge/start-python-script-from-init-d/
NET292.profile.indd	10			http://janloert.com/NET292-profile.pdf

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Tensorboard on gcloud	51		https://bicepjai.github.io/machine-learning/2016/08/22/tensorboard-on-gcloud.html
How to Quickly Train a Text-Generating Neural Network for Free	77		https://minimaxir.com/2018/05/text-neural-networks/
Neural Networks Example, Math and code - Brian Omondi Asimba	124		https://brianasimba.github.io/MachineLearningblog//Neural-Network-Example/?fbclid=IwAR3rneUrHWazLbsV
GAN - Some cool applications of GANs. - Jonathan Hui - Medium	109		https://medium.com/@jonathan_hui/gan-some-cool-applications-of-gans-4c9ecca35900
Another Datum	64		http://anotherdatum.com/
mihail911/nlp-library: curated collection of papers for the nlp practitioner 📖🤖	121		https://github.com/mihail911/nlp-library
Sketching Interfaces - Airbnb Design	41		https://airbnb.design/sketching-interfaces/
Transformers from scratch Peter Bloem	114		http://www.peterbloem.nl/blog/transformers
dennybritz/reinforcement-learning: Implementation of Reinforcement Learning Algorithms. Python, OpenAI Gym, Tensorflow. Exercises and Solutions to accompany Sutton's Book and David Silver's course.	112		https://github.com/dennybritz/reinforcement-learning
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A neural approach to relational reasoning DeepMind	44		https://deepmind.com/blog/neural-approach-relational-reasoning/
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Google and Uber's Best Practices for Deep Learning - Intuition Machine - Medium	25		https://medium.com/intuitionmachine/google-and-ubers-best-practices-for-deep-learning-58488a8899b6
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Polo Club of Data Science @ Georgia Tech: Human-Centered AI, Deep Learning Interpretation & Visualization, Cybersecurity, Large Graph Visualization and Mining Georgia Tech Atlanta, GA 30332, United States	140		https://poloclub.github.io/
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Google AI Blog: XTREME: A Massively Multilingual Multi-task Benchmark for Evaluating Cross-lingual Generalization	138		https://ai.googleblog.com/2020/04/xtreme-massively-multilingual-multi.html
Top 8 trends from ICLR 2019	104		https://huyenchip.com/2019/05/12/top-8-trends-from-iclr-2019.html
Machine Learning Explained: Understanding Supervised, Unsupervised, and Reinforcement Learning - Data Science Central	42		https://www.datasciencecentral.com/profiles/blogs/machine-learning-explained-understanding-supervised-u
Engineering Extreme Event Forecasting at Uber with Recurrent Neural Networks - Uber Engineering Blog	5		https://eng.uber.com/neural-networks/
Google Developers Blog: Introducing TensorFlow Feature Columns	31		https://developers.googleblog.com/2017/11/introducing-tensorflow-feature-columns.html?m=1
A Visual Guide to Using BERT for the First Time - Jay Alamar - Visualizing machine learning one concept at a time	126		https://jalamar.github.io/a-visual-guide-to-using-bert-for-the-first-time/
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Compressing deep neural nets	4		http://machinethink.net/blog/compressing-deep-neural-nets/
Auto-Keras, or How You can Create a Deep Learning Model in 4 Lines of Code	78		https://towardsdatascience.com/auto-keras-or-how-you-can-create-a-deep-learning-model-in-4-lines-of-co
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Multilingual Sentence Embeddings for Zero-Shot Transfer - Applying a Single Model on 93 Languages Lyrn.AI	91		https://www.lyrn.ai/2019/01/06/massively-multilingual-sentence-embeddings-for-zero-shot-transfer/
Deep Learning for NLP, advancements and trends in 2017 - Tryolabs Blog	36		https://tryolabs.com/blog/2017/12/12/deep-learning-for-nlp-advancements-and-trends-in-2017/?lipi=urn%3A
Deploy flask app with nginx using gunicorn and supervisor	92		https://medium.com/ymedialabs-innovation/deploy-flask-app-with-nginx-using-gunicorn-and-supervisor-d7a
Google AI Blog: Introducing a New Framework for Flexible and Reproducible Reinforcement Learning Research	71		https://ai.googleblog.com/2018/08/introducing-new-framework-for-flexible.html?m=1
Deploy TensorFlow models - Towards Data Science	73		https://towardsdatascience.com/deploy-tensorflow-models-9813b5a705d5
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Capsule Networks Are Shaking up AI - Here's How to Use Them	23		https://hackernoon.com/capsule-networks-are-shaking-up-ai-heres-how-to-use-them-c233a0971952
Building a text classification model with TensorFlow Hub and Estimators	72		https://medium.com/tensorflow/building-a-text-classification-model-with-tensorflow-hub-and-estimators-316
CS 224N Home	120		http://web.stanford.edu/class/cs224n/index.html#schedule
Teach Machine to Comprehend Text and Answer Question with Tensorflow - Part I - Han Xiao Tech Blog	49		https://hanxiao.github.io/2018/04/21/Teach-Machine-to-Comprehend-Text-and-Answer-Question-with-Tenso
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Question answering with TensorFlow - O'Reilly Media	33		https://www.oreilly.com/ideas/question-answering-with-tensorflow
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Learn Word2Vec by implementing it in tensorflow - Towards Data Science	55		https://towardsdatascience.com/learn-word2vec-by-implementing-it-in-tensorflow-45641adaf2ac
Automation via Reinforcement Learning	119		https://jacobbuckman.com/2019-09-23-automation-via-reinforcement-learning/?fbclid=IwAR2PnVywt45E0q
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Face It - The Artificially Intelligent Hairstylist Intel® Software	19		https://software.intel.com/en-us/articles/face-it-the-artificially-intelligent-hairstylist?utm_source=taboola&utm

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Entity extraction using Deep Learning based on Guillaume Genthial work on NER	52		https://medium.com/intro-to-artificial-intelligence/entity-extraction-using-deep-learning-8014acac6bb8
GANs are Broken in More than One Way: The Numerics of GANs	11		http://www.inference.vc/my-notes-on-the-numeric-of-gans/?utm_campaign=Revue%20newsletter&utm_mec
Reinforcement learning for complex goals, using TensorFlow - O'Reilly Media	8		https://www.oreilly.com/ideas/reinforcement-learning-for-complex-goals-using-tensorflow
tensorflow-without-a-phd/00_RNN_predictions_playground.ipynb at master · GoogleCloudPlatform/tensorflow-without-a-phd	67		https://github.com/GoogleCloudPlatform/tensorflow-without-a-phd/blob/master/tensorflow-rnn-tutorial/tutoris
Writing a Generic TensorFlow Serving Client for Tensorflow Serving models	134		https://medium.com/data-science-engineering/productising-tensorflow-keras-models-via-tensorflow-serving
Keras as a simplified interface to TensorFlow: tutorial	89		https://blog.keras.io/keras-as-a-simplified-interface-to-tensorflow-tutorial.html
CS 229 - Deep Learning Cheatsheet	70		https://stanford.edu/~shervine/teaching/cs-229/cheatsheet-deep-learning.html
A New Angle on L2 Regularization	63		https://thomas-tanay.github.io/post--L2-regularization/