Python ML/AI Resources

Jon Krohn

<https://www.jonkrohn.com/>

<https://github.com/jonkrohn>

<https://www.youtube.com/@JonKrohnLearns/featured>

Sebastian Raschka

<https://sebastianraschka.com/>

<https://github.com/rasbt>

Intel AI for Workforce

[http://tiny.cc/ai4w\_us](https://protect-us.mimecast.com/s/iJWpCXDlnQSOOV8jS671rO?domain=tiny.cc)

password: intelai4wus

Google: <https://developers.google.com/machine-learning>

AWS: <https://aws.amazon.com/training/learn-about/machine-learning/>

Microsoft: <https://azure.microsoft.com/en-us/products/machine-learning>

DataBricks Big Book of ML Use Cases: [**https://tinyurl.com/ympvuanf**](https://tinyurl.com/ympvuanf)

**(ebook)**

**IBM:** [**IBM Skills - Free Events, Courses and Training Programs**](https://www.ibm.com/skills/?mhsrc=ibmsearch_a&mhq=quantum%20computing%20practicioner)

History of AI

<https://sitn.hms.harvard.edu/flash/2017/history-artificial-intelligence/>

Scikit Learn  
<https://scikit-learn.org/stable/index.html>

Hugging Face  
<https://huggingface.co/>

Open AI  
<https://openai.com/>

Teachable Machine  
<https://teachablemachine.withgoogle.com/>  
<https://www.youtube.com/watch?v=kwcillcWOg0>

Tensorflow Playground  
<https://tinyurl.com/mr4xt9rb>

Stanford CS229: Machine Learning Course, Lecture 1 (Professor NG)  
<https://youtu.be/jGwO_UgTS7I>

Data Sets:  
<https://www.kaggle.com/>  
<http://archive.ics.uci.edu/ml/machine-learning-databases>  
[GitHub - niderhoff/nlp-datasets: Alphabetical list of free/public domain datasets with text data for use in Natural Language Processing (NLP)](https://github.com/niderhoff/nlp-datasets)

ML Learning Models/ Problem Framing  
<https://developers.google.com/machine-learning/problem-framing/?utm_source=googleAI&utm_medium=card-image&utm_campaign=training-hub&utm_term&utm_content=problem-framing>

Reinforcement Learning:

<https://www.youtube.com/watch?v=nRHjymV2PX8>

Supervised Learning:

<https://www.youtube.com/watch?v=7eh4d6sabA0>

Unsupervised Learning:

<https://www.youtube.com/watch?v=EItlUEPCIzM>

Machine Learning Zero to Hero:

[Machine Learning Zero to Hero (Google I/O'19) - YouTube](https://www.youtube.com/watch?v=VwVg9jCtqaU&t=229s)

Neural Networks:

Youtube videos: <https://tinyurl.com/2z4ppyxs>

Book: [Neural Networks from Scratch in Python Book (nnfs.io)](https://nnfs.io/)

GANS

<https://developer.ibm.com/articles/generative-adversarial-networks-explained/>

Commonly used Machine Learning Algorithms (with Python and R Codes)

<https://www.analyticsvidhya.com/blog/2017/09/common-machine-learning-algorithms/>

Moral Machine: an immersive experience for students:

<https://www.moralmachine.net/>

NLP vs NLU vs NLG

IBM: <https://www.youtube.com/watch?v=1I6bQ12VxV0>

What is NLP:

IBM: <https://www.youtube.com/watch?v=fLvJ8VdHLA0> (10 mins)

Simplilearn: <https://www.youtube.com/watch?v=CMrHM8a3hqw&t=191s> ( 6 mins)

What is a Chatbot:

<https://www.youtube.com/watch?v=o9-ObGgfpEk&t=320s> (10 mins)

Build a Chatbot tutorial: <https://www.youtube.com/watch?v=9KZwRBg4-P0&t=192s> (33 mins)

Document Similarity:

<https://www.youtube.com/watch?v=m_CooIRM3UI> (13 mins)

NLP Word Embeddings PlayList (Prof. Ng)

<https://www.youtube.com/playlist?list=PLhWB2ZsrULv-wEM8JDKA1zk8_2Lc88I-s>

8 videos, total time (73 mins)

NLP Demystified: [NLP Demystified](https://www.nlpdemystified.org/)

[Machine Learning Specialization 2022 -- Andrew Ng, Stanford University. - YouTube](https://www.youtube.com/playlist?list=PLxfEOJXRm7eZKJyovNH-lE3ooXTsOCvfC)

MIT 6.S191 Introduction to Deep Learning:  
[MIT 6.S191: Introduction to Deep Learning - YouTube](https://www.youtube.com/playlist?list=PLtBw6njQRU-rwp5__7C0oIVt26ZgjG9NI) (videos  
[MIT Deep Learning 6.S191 (introtodeeplearning.com)](http://introtodeeplearning.com/) (slides and labs

[Natural Language Processing Demystified (nlpdemystified.org)](https://www.nlpdemystified.org/)  
Has complete notebooks, including a transformer model