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

Towards Data Science: <https://towardsdatascience.com/>

<https://towardsdatascience.com/data-types-in-statistics-347e152e8bee>

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>

Quick, Draw:

<https://quickdraw.withgoogle.com/>

Professor NG:

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

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>

Useful Tutorials:

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>

Environment Installation/Setup:

Requirements file: <https://pip.pypa.io/en/latest/user_guide/#requirements-files>

(Thank you to Corey)

Intel 4 Workforce link:

<http://tiny.cc/ai4w_us>

**intelai4wus**

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 from scratch:

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

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

(I like their approach, Easy to follow)

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/)

Courses Resources:

[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

**Industry AI/Machine Learning Courses**

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>

Intel4WF: (pwd provided in chat) <http://tiny.cc/ai4w_us>

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)

Webscraping Resources: (Thanks Patrick Logue)

If you are interested -

I attended two separate online workshops that were conducted in California last June that dealt with data science or data analysis.

There were four accounting professors in the workshops, the rest were computer information systems professors.

We completed several projects in UiPath, Alteryx, and Tableau. There was one project that carried over to the second workshop.

UiPath = bots or automated programs (Microsoft has Powerapps)

Alteryx = cleaning data, calculations, machine learning, etc...

Tableau = interactive dashboards (Microsoft has PowerBI).

My two videos =

Using UiPath on an application =

[https://www.youtube.com/watch?v=3F5mjfKThdQ](https://secure-web.cisco.com/1egQwl8WfNUK6wKMBN0zJv9SrpB6kNgpz5jPAqhe_kCdAQWzpaI7sou15TnGXxaQj544ekswPXBvPzqLNVq7O-728_5HxlKPMkLHqJMvfmbMAsi4Dg4AGJcUIyrv3Hs45Wxr0TGT34l-_AO0gg4bRVfBZl-W5fNFbGu7OMo2Ppt4iixeASRA0NjbbGkHfP3jloZ6IXwW0ZSEExUKK1iqzzhcoI1-A4V2eHrhxxCNVgDs75HqeF9MahCWz4dLQimBanmSdX30sD0ClAiMwIOy5WErI8XDwLV0qcJmrPeusQ2R0TGvOqEflTfD9KOlhrzR6O_4nR_IAsDIHTfcEPjJnd6fqtIV2ZV1LY3GOTvWK1rsmmod6RQvMER_OvLnmCGb54YKqad7SFhOoKALYV_HATkYzv6zMYBmnCWh3FXkpP4vGiuCYX2ZLwKH3xwSH4mB3/https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3D3F5mjfKThdQ)

Using UiPath, then, Alteryx, then, Tableau =

[https://www.youtube.com/watch?v=eo59rGifSMY](https://secure-web.cisco.com/1IP5OIGOBHD6ccoJWF7K9oK0pWOw56rWROM-S-MFw6--atcVI2mbJFkWlXv2zz969zpVEsSgb_h7BOVgnZ4AtQ08WtCvbgxP1YnScZ-fhNDMDRpQNHYNJE_Q3_tJwUKizyMYtWe-3JcrNVGxbw9YAHxWamKbSOqKm0ouposy4t2KzEYmVxaYrqi9wQx37Oe19YL_ZfXeMLPtUvOe8ofe1ppKEjOqUH8t6YROQkmTP-qX6i9THZWwBQImG9x8U_GfgKrTD9lCbaZA-hpTmZPRtKKusmgGIezEpwQU9XEXPu4sklM4L7_pm_WaI0aHLQIrPStsx1U38dage_9mWE18unmX-Zyygl9E_soOirGfccO8920j_8waipM03pt4MlWl4acKUg9T5PBWix7epr7xpPVvnWfaDWP9uXXMNviZaeGsrDpP6rPX9U35c1CffJNcT/https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3Deo59rGifSMY)

Two videos from UiPath and a student's project =

Using UiPath for Accounting =

[https://www.youtube.com/watch?v=YX9L5Ny7DMc](https://secure-web.cisco.com/1vHCIbbc0F2OIkGVoh3i0ijJu7gSHcA1EmCLGVr7q75Iilo1rDc9x11__zrjpC1JNFGOeJ1Y4ASfWD2PLnEqPgkLGSYHjDDql_DYMKfafzQQQxETXh5PQSoNSEVdqoGD7HT-2TT_rVk3sTYGMdXe1xg68vR_rLEoRm0OQG9csGBfZDpID5W3Q8G7Fs7LDxsCV_Ntdw4JWCcDH0w2yIuIEJGepb90LMRrco2F5KfeC0OITF1zlWJpAvJdX_Xvo2GigWL2K_NudE44h80QjxU1f5O0jRnrjT_x1nYY_FV-rxcRz2Yy7JB6dc7Kb3WG5KRJot03XiCQruU9eC1LzuCdxe5JBXkoh4hPDyv12SqXp9lgZM44jayBY6s61CChw0XuO7VfgJ1en2Vf5rlxUDqBykPdC944SGDhxreoUDb1fJIO9JTjFFesVpBMg6C8P-hTa/https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DYX9L5Ny7DMc)

Automated Stock Analysis = UiPath =

[https://www.youtube.com/watch?v=hKMUCepIlzk](https://secure-web.cisco.com/1wsJNrSSPSYa7wYUrFcxjchkSysv16Y0U7zze3I7WMN49XsoeRw2vlV_63mwyBmok1HMHLbv61rXocn311ViBsHT0ZbIkKkbJK_LINiwKX_jhqIttdvVt8RgbmhKRS1UuvWp_nBAFUlRnORuVisQS1ewC5K8WXIOddQr-Y73QakEv2FY8ksDJ5fdeE5wYlHmn15ezZZIsJzI5GCDN0cx7ktS6bRyrWQ_O_9--n3n7RiS9L35gOskA3SJM7dHcUNxrcW6J5DhV5N59Tf71VTZCG5vf811rNyVIXpfQHx1glcONMZw-pNXeRxJKIGN36vUWSMSLUUVMN3SNWd_X7auGVjGHeNVfrTXU1_etVDRo5TmdUHC4H2MURXmW37eaweuEick1-yA3_x6SDLX1_tzxPMYWvtYQDBwu9hRmnQjKmyuo963Nmw8HgGBF-NfdHG1p/https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DhKMUCepIlzk)