- → Say hello to the "Hello, World" of machine learning
- → Framing: Key ML Terminology
- → <u>Linear Regression</u>
- → <u>Training and Loss: Mean square error</u>
- → NumPy:
 - ◆ Official Document: Quickstart tutorial
 - ◆ Colab: NumPy UltraQuick Tutorial
- → Pandas:
 - ◆ Official site: 10 min to panda
 - ◆ Colab: Pandas DataFrame UltraQuick Tutorial
- → DATA (Feature Engineering):
 - ◆ Colab: Feature Engineering
- → Training and Test Sets:

https://developers.google.com/machine-learning/crash-course/training-and-test-sets/splitting-data

→ Machine learning approaches:

https://en.wikipedia.org/wiki/Machine_learning#Machine_learning_approaches

◆ Supervised learning:

https://en.wikipedia.org/wiki/Supervised_learning

Classification:

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https://www.tensorflow.org/tutorials/keras/classificatio

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- https://www.youtube.com/watch?v=bQI5uDxrFfA&list=
 PLLssT5z_DsK-h9vYZkQkYNWcltqhlRJLN&index=3&t=0s
- https://www.youtube.com/watch?v=6g4O5UOH304&t=
 4043s the first hour
- Classification: True vs. False and Positive vs. Negative:
 https://developers.google.com/machine-learning/crash-course/classification/true-false-positive-negative
- Classification: Accuracy:
 https://developers.google.com/machine-learning/crash-course/classification/accuracy
- Classification: Precision and Recall:
 https://developers.google.com/machine-learning/crash-course/classification/precision-and-recall
- Classification: ROC Curve and AUC:
 https://developers.google.com/machine-learning/crash-course/classification/roc-and-auc



• Regression:

https://www.tensorflow.org/tutorials/keras/regression

Unsupervised learning:

https://en.wikipedia.org/wiki/Unsupervised_learning

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Reinforcement learning:
 https://en.wikipedia.org/wiki/Reinforcement_learning

- → overfitting and underfitting:
 - https://developers.google.com/machine-learning/crash-course/generalization/peril-of-overfitting
 - https://www.tensorflow.org/tutorials/keras/overfit_and_underfit
 - ◆ https://www.youtube.com/watch?v=GMrTBtzJkCg
- → Neural Networks:

https://developers.google.com/machine-learning/crash-course/introduction-to-neural-networks/video-lecture

- → https://codelabs.developers.google.com/codelabs/tensorflow-lab1-hellowo rld/index.html?index=..%2F..index#3
- → Guidelines:

https://developers.google.com/machine-learning/crash-course/real-world-guidelines

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- → Netflix Research: Recommendations
 - https://www.youtube.com/watch?v=f8OK1HBEgn0&list=PL_S_WRR3
 d9p2J5IILdSS2OGCF8s3E0kjQ&index=3
 - ◆ https://www.youtube.com/watch?v=nq2QtatuF7U
- → Dynamic Pricing
 - https://www.youtube.com/watch?v=SG11SJdPnIU&feature=emb_log

- → ML Systems in the Real World: Cancer Prediction
 - https://developers.google.com/machine-learning/crash-course/canc er-prediction
 - ♦ Machine Learning Crash Course

- ◆ Andrew Ng:
- → https://www.youtube.com/playlist?list=PLLssT5z_DsK-h9vYZkQkYNWcltqhl
 https://www.youtube.com/playlist?list=PLLssT5z_DsK-h9vYZkQkYNWcltqhl
 https://www.youtube.com/playlist?list=PLLssT5z_DsK-h9vYZkQkYNWcltqhl
- → Linear Regression:

https://www.youtube.com/watch?v=kHwlB_j7Hkc&list=PLLssT5z_DsK-h9vY ZkQkYNWcltghlRJLN&index=4

→ Logistic Regression | Classification:

https://www.youtube.com/watch?v=-la3q9d7AKQ&list=PLLssT5z_DsK-h9vY ZkQkYNWcltqhlRJLN&index=32

- → Logistic Regression | MultiClass Classification OneVsAll:
- → https://www.youtube.com/watch?v=-Elfb6vFJzc&list=PLLssT5z_DsK-h9vYZk
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- → Overfitting:

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→ Neural Networks Representation:

https://www.youtube.com/watch?v=1ZhtwInuOD0&list=PLLssT5z_DsK-h9v YZkQkYNWcItqhlRJLN&index=43

