**Useful Study Links**

AWS MLOps Workshop Example: ​

[https://github.com/awslabs/amazon-sagemaker-mlops-workshop](about:blank)​

[https://github.com/docker-science/cookiecutter-docker-science](about:blank)​

ML Fraud Example​

[https://github.com/udacity/ML\_SageMaker\_Studies/blob/master/Pay](about:blank)[ment\_Fraud\_Detection/Fraud\_Detection\_Solution.ipynb](about:blank)​

DVC​ git versioning Example

[https://dvc.org/doc/tutorials/get-started/agenda](about:blank)​

Automate Model Training

[https://aws.amazon.com/blogs/machine-learning/automating-model-retraining-and-](about:blank)deployment-using-the-aws-step-functions-data-science-sdk-for-amazon-sagemaker/

AWS Build a gateway endpoint REST API

[https://aws.amazon.com/blogs/m](about:blank)[achine-learning/call-an-amazon-sagemaker-model-endpoint-using-amazon-api-gateway-and-aws-lambda/](about:blank)​

Udacity Course – ML Engineer Nano Degree – Note requires Udacity Account

[https://www.udacity.com/course/machine-learning-engineer-nanodegree--nd009t](about:blank)

Emily Webber – AWS Sage Maker Deployment Video Series

[https://www.youtube.com/playlist?list=PLhr1KZpdzukcOr\_6j\_zmSrvYnLUtgqsZz](about:blank)

Local Host an AWS Notebook Instance –

[https://towardsdatascience.com/run-amazon-sagemaker-notebook-locally-with-docker-container-8dcc36d8524a](about:blank)

[https://github.com/qtangs/sagemaker-notebook-container](about:blank)

SciKit Learn Bring Your Own Container:

[https://github.com/awslabs/amazon-sagemaker-examples/tree/master/advanced\_functionality/scikit\_bring\_your\_own/container](about:blank)

SageMaker Inference Toolkit:

[https://github.com/aws/sagemaker-inference-toolkit](about:blank)

Docker Setup:

[https://maestro.dhs.gov/confluence/display/MATRIX/Docker](about:blank)

SageMaker Examples:

[https://github.com/awslabs/amazon-sagemaker-examples/tree/master/advanced\_functionality](about:blank)

Terraform Sagemaker Fraud Example:

[https://github.com/qtangs/tf-fraud-detection-using-machine-learning](about:blank)

Variety Tf AWS Examples:

[https://github.com/qtangs](about:blank)

Quick overview Terraform:

[https://www.xenonstack.com/insights/terraform/](about:blank)

Terraform on AWS Tutorials:

[https://learn.hashicorp.com/terraform?track=aws#aws](about:blank#aws)

Jennetta git sagemaker project -

[https://github.com/jennettageorge/sagemakerdeployment/blob/master/sagemaker-deployment/Project/SageMaker%20Project.ipynb](about:blank)

Amazon-sagemaker-devops-with-ml

[https://github.com/aws-samples/amazon-sagemaker-devops-with-ml/tree/master/2-Bring-Your-Own](about:blank)

Awesome-production-machine-learning

[https://github.com/EthicalML/awesome-production-machine-learning](about:blank)

Aws-samples/eks-kubeflow-workshop

[https://github.com/aws-samples/eks-kubeflow-workshop/blob/master/notebooks/05\_Kubeflow\_Pipeline/05\_04\_Pipeline\_SageMaker.ipynb](about:blank)

D4ML-Scenarios

[https://github.com/ThoughtWorksInc/CD4ML-Scenarios](about:blank)

A detailed high level overview of Jenkins use in data science

<https://biouno.org/2016/03/07/Creating-a-Jenkins-Data-Science-Platform.html>

Google ML documentation

<https://cisgov.sharepoint.com/:w:/t/Attain_MDASII_BiometricsTeams/Ed92HKCOr8tIuigBSbcq9fMBprvmDcaGReSEGRvqTvC6NQ?e=jjSrz4>

///new databricks

Learning Links:

<https://towardsdatascience.com/my-10-recommendations-after-getting-the-databricks-certification-for-apache-spark-53cd3690073>

Version Control Github:

<https://maestro.dhs.gov/confluence/display/DBIS/DevOps+Practices+for+Databricks>

<https://docs.databricks.com/notebooks/github-version-control.html>

Model Training:

<https://maestro.dhs.gov/confluence/pages/viewpage.action?pageId=203866752>

DevOps/CICD:

<https://maestro.dhs.gov/confluence/display/DBIS/DevOPS+Effort+-+Databricks+Pipeline>

<https://maestro.dhs.gov/confluence/display/DBIS/Databricks+Pipeline+Setup+and+Description>

<https://maestro.dhs.gov/confluence/pages/viewpage.action?pageId=126321699>

DBIS Documentation:

<https://maestro.dhs.gov/confluence/display/DBIS/Databricks+Documentaton>

Official Documentation:

<https://docs.databricks.com/index.html>

AWS sagmaker example notebooks

<https://github.com/awslabs/amazon-sagemaker-examples>

A collection of Clustering Algorithm’s

<https://machinelearningmastery.com/clustering-algorithms-with-python/>

AI ML Pipeline with DVC

<https://towardsdatascience.com/the-ultimate-guide-to-building-maintainable-machine-learning-pipelines-using-dvc-a976907b2a1b>

KIBANA Tutorials for Elastic Search

<https://www.youtube.com/watch?v=BacBQiTonzU&list=PLBtyBPTlyC7sPQDrYOEcQC3d1txIwF299&index=11>

<https://www.youtube.com/watch?v=tOkqi2-UKX8&list=PLBtyBPTlyC7sPQDrYOEcQC3d1txIwF299&index=12>

Below video is an overview of utilities available in Kibana.

<https://www.youtube.com/watch?v=73llapmOhlM>

Below has simple syntax to maneuver in Kibana

<https://www.tutorialspoint.com/kibana/index.htm>

Sklearn Model algorithm cheat sheet for ML development

<https://scikit-learn.org/stable/tutorial/machine_learning_map/index.html>

Different types of neural networks

<https://medium.com/towards-artificial-intelligence/main-types-of-neural-networks-and-its-applications-tutorial-734480d7ec8e>