Data Science Learning Plan

1. NumPy & Pandas

* Indexing
* Operations
* Reshaping
* Broadcasting

1. Feature Engineering

* Feature selection
* Feature transformation
* Feature extraction
* Categorical encoding
* Filling missing data
* Scaling (min max, robust, standard, lognormal)

1. Statistics

* <https://www.youtube.com/watch?v=xxpc-HPKN28&list=WL&index=37>

1. Visualisation techniques

* Matplotlib
* Seaborn
* See data science handbook chapter

1. EDA

* Getting as much from the data as possible
* Recording observations

1. Understanding ML algorithms

* Learn 10 models
* Maths and logic behind

1. Hyper parameters

* Grid search
* Randomised search
* When to use either

1. Deployment

* Azure
* Django
* Flask

1. Deep learning

* Artifical neural networks
* Convolutional neural networks
* Recurrent neural networks
* Advanced learning on CNN
* Deployment with neural networks
* Tensor flow
* Keras
* Pytorch

1. Databases

* SQL
* Unstructured data bases e.g. mongoDB

1. Visualisation

* PowerBI
* Tableau
* Qlik sense