Python Overview (especially numpy and pandas):

<https://www.tutorialspoint.com/python/>

Tensorflow study:

1. <http://learningtensorflow.com/>
2. [http://cs224d.stanford.edu/lectures/CS224d-Lecture7.pdf](http://cs224d.stanford.edu/lectures/CS224d-Lecture7.pdf )
3. <https://ml-with-tensorflow.info/>

Gradient Optimizer code for Linear Regression written from scratch in python to grasp concept:

<https://github.com/samadrita1/ML/blob/master/Linear_Regression_Scratch.py>

Overview of popular regression and classification models (Udemy Tutorial)

<https://www.udemy.com/machinelearning/>

Used Tensorflow to implement K-Neighbors classification model

Example can be found here: <http://learningtensorflow.com/lesson6/>

Classification loss functions: Misclassification measures

<https://en.wikipedia.org/wiki/Loss_functions_for_classification>

**Optimization functions** (Overview)

[https://towardsdatascience.com/](https://towardsdatascience.com/gradient-descent-algorithms-and-adaptive-learning-rate-adjustment-methods-79c701b086be)

Random Forest:

<https://www.datasciencecentral.com/profiles/blogs/random-forests-explained-intuitively>

Gradient Optimizer:

<https://www.tensorflow.org/api_docs/python/tf/train/GradientDescentOptimizer>

Classifier Comparison:

Source: <http://scikit-learn.org/stable/auto_examples/classification/plot_classifier_comparison.html>

Detailed Study: <https://www.sciencedirect.com/science/article/pii/S2212567112001748>

[Click here for further details of csv\_read function](http://pandas.pydata.org/pandas-docs/version/0.23/generated/pandas.read_csv.html)

Feature Selection:

<https://towardsdatascience.com/why-how-and-when-to-apply-feature-selection-e9c69adfabf2>

<https://machinelearningmastery.com/feature-selection-machine-learning-python/>

<http://fatihsarigoz.com/tag/machine_learning-feature_selection-rfe.html#4.-Feature-Selection-via-RFE>

Label Encoder: <http://scikit-learn.org/stable/modules/generated/sklearn.preprocessing.LabelEncoder.html>

One Hot Encoder: <http://scikit-learn.org/stable/modules/generated/sklearn.preprocessing.OneHotEncoder.html>

[Why is Random Search better than Grid Search?](https://analyticsindiamag.com/why-is-random-search-better-than-grid-search-for-machine-learning/)

[cross validation score](https://en.wikipedia.org/wiki/Cross-validation_(statistics))

Interpolation:

https://docs.scipy.org/doc/scipy/reference/generated/scipy.interpolate.interp1d.html

Performance Measures:

https://machinelearningmastery.com/classification-accuracy-is-not-enough-more-performance-measures-you-can-use/

Pandas:

https://machinelearningmastery.com/visualize-machine-learning-data-python-pandas/

Feature Eliminations:

https://www.analyticsvidhya.com/blog/2015/07/dimension-reduction-methods/

Feature Selection:

https://www.analyticsvidhya.com/blog/2016/12/introduction-to-feature-selection-methods-with-an-example-or-how-to-select-the-right-variables/