

Methods review

1) Gradient Descent:

- [Gradient Descent, Step-by-Step](#)
- Stochastic Gradient Descent - [Stochastic Gradient Descent, Clearly Explained](#)
 - <https://www.coursera.org/lecture/machine-learning/stochastic-gradient-descent-DoRHJ>
- For reading <https://medium.com/bayshore-intelligence-solutions/why-is-stochastic-gradient-descent-2c17baf016de>

2) Support vector machine (SVM)

- [Support Vector Machines, Clearly Explained](#)
- For reading
 - <https://see.stanford.edu/materials/aimlcs229/cs229-notes3.pdf>
 - <https://towardsdatascience.com/support-vector-machine-simply-explained-free-28eba5496>

3) Naive Bayes

- [Naïve Bayes Classifier - Fun and Easy Machine Learning](#)
- For reading
 - <https://web.stanford.edu/~jurafsky/slp3/4.pdf>
 - <https://machinelearningmastery.com/naive-bayes-classifier-scratch-python/>

4) Examples

- <https://scikit-learn.org/stable/modules/sgd.html>
- <https://scikit-learn.org/stable/modules/svm.html>
- https://scikit-learn.org/stable/modules/naive_bayes.html

Basic NLP

1) Simple intro

- <https://becominghuman.ai/a-simple-introduction-to-natural-language-processing-ea66a1747b32>

2) RegExps

- Cheatsheet
 - i) <http://web.mit.edu/hackl/www/lab/turkshop/slides/regex-cheatsheet.pdf>
 - ii) https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions/Cheatsheet
 - iii) <https://medium.com/factory-mind/regex-tutorial-a-simple-cheatsheet-by-examples-649dc1c3f285>
- NLP Stanford - Regular expressions (chapter 2.1) paper:
<https://web.stanford.edu/~jurafsky/slp3/2.pdf>
- Online Regex tester and debugger
 - i) <https://regex101.com/>
 - ii) <https://regexr.com/>

3) Examples of text preprocessing

- <https://medium.com/@datamonsters/text-preprocessing-in-python-steps-tools-and-examples-bf025f872908>
- <https://towardsdatascience.com/nlp-text-preprocessing-a-practical-guide-and-template-d80874676e79>