Recommended Websites on A.I./Machine Learning

Andrej Karpathy Blog

- Hacker's guide to Neural Networks
- The Unreasonable Effectiveness of Recurrent Neural Networks

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I recommend starting here for basic Neural Network concepts.

- A Neural Network in 11 lines of Python (Part 1)
- A Neural Network in 13 lines of Python (Part 2 - Gradient Descent)
- Anyone Can Learn To Code an LSTM-RNN in Python (Part 1: RNN)

WildML

- Recurrent Neural Networks Tutorial, Part 1 – Introduction to RNNs
- Recurrent Neural Networks Tutorial, Part 2 – Implementing a RNN with Python, Numpy and Theano
- Recurrent Neural Networks Tutorial, Part 3 – Backpropagation Through Time and Vanishing Gradients
- Recurrent Neural Network Tutorial, Part 4 – Implementing a GRU/LSTM RNN with Python and Theano

Other Sources

- Awesome Machine Learning
- Understanding LSTM Networks

Computational Fact-Checking

- Automated Fact-Checking presentation by Joshua Chen

Papers

- Computational Fact Checking from Knowledge Networks
- Computational Fact Checking through Query Pertubations
- Discrimintive Predicate Path Mining for Fact Checking in Knowledge Graphs

- Towards Computational Fact-Checking

Natural Language Processing

Copies of these papers are in the PDF directory. I recommend starting with "Text Mining: the State of the Art and the Challenges" for an overview of text mining.

General

Articles, Blogposts, and Tutorials

- edX Course on Natural Language Processing
- Oxford Deep NLP 2017 Course
- Regular Expressions 101

Papers

- Evolving Better Stoplists for Document Clustering and Web Intelligence
- On Stopwords, Filtering and Data Sparsity for Sentiment Analysis of Twitter
- Preprocessing Techniques for Text Mining - An Overview
- Retrieval Effectiveness on the Web
- Risk Information Extraction and Aggregation
- Text Mining: The State of the Art and the Challenges

word2vec and doc2vec

I haven't read through these yet, but it seems that *Efficient Estimation of Word Representations in Vector Space* and *Distributed Representations of Words and Phrases and their Compositionality* started it all. Here are the links for documentation on word2vec and doc2vec.

Articles, Blogposts, and Tutorials

- A Gentle Intorduction to Doc2Vec
- Vector Representations of Words
- Word2Vec Tutorial - The Skip-Gram Model
- Word2Vec Tutorial Part 2 - Negative Sampling

Papers

- An Empirical Evaluation of doc2vec with Practical Insights into Document Embedding Generation
- Distributed Representations of Sentences and Documents

- Distributed Representations of Words and Phrases and their Compositionality
- Efficient Estimation of Word Representations in Vector Space
- Neural Network Doc2vec in Automated Sentiment Analysis for Short Informal Texts