Recommended Sources on A.I./Machine Learning

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- General Machine Learning and Artificial Intelligence
- Knowledge Graphs and Computational Fact-Checking
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General Machine Learning and Artificial Intelligence

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 Networks Tutorial, Part 4 Implementing a GRU/LSTM RNN with Python and Theano

Other Sources

- Awesome Machine Learning
- Understanding LSTM Networks

Knowledge Graphs and Computational Fact-Checking

This is cool stuff

Automated Fact-Checking presentation by Joshua Chen

Papers

- Computational Fact Checking from Knowledge Networks
- Computational Fact Checking through Query Perturbations
- Discriminative Predicate Path Mining for Fact Checking in Knowledge Graphs
- · A Review of Relational Machine Learning for 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

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