

Complete List of resources to learn data science

| ADD YOUR RECOMMENDED RESOURCE HERE: | | CLICK HERE TO ADD |
|---|--|-----------------------------------|
| Name | | Source |
| Data Science | | Harvard |
| R for Data Science | | Hadley Wickham |
| Machine Learning Notebooks | | Sebastian Rashcka |
| Machine Learning FAQ | | Sebastian Raschka |
| Python for Machine Learning | | Sebastian Raschka |
| Python Programming | | Datacamp |
| The Elements of Statistical Learning: Data Mining, Inference, | | Trevor Hastie |
| Deep Learning | | Ian Goodfellow, Yoshua B. |
| Foundations of Data Analysis - Part 1: Statistics Using R | | EdX |
| Foundations of Data Analysis - Part 2: Inferential Statistics | | EdX |
| The Analytics Edge | | EdX |
| Intro to python for data science | | Data Camp |
| Database SQL | | Stanford University |
| Forecasting: principles and practice | | Rob J Hyndman |
| Doing Bayesian Data Analysis | | John K Kruschke |
| An Introduction to Statistical Learning | | Trevor Hastie |
| Neural Networks | | Hugo Larochelle |
| Data Science and Machine Learning Bootcamp with R | | Udemy |
| Kaggle | | Kaggle |
| Text Mining: Bag of Words | | DataCamp |
| An Introduction to Statistical Learning | | eBook, Youtube |
| Human-first Machine Learning Platform | | MLJAR |
| Data Science | | Coursera |
| Data Science Ethics | | EdX |
| Weapons of Math Destruction | | Cathy O'Neil |
| Computer Vision: Algorithms and Applications | | Richard Szeliski |
| Intro to Data Science | | Coursera |
| Data Science with Open Source Tools | | Philipp K. Janert |
| Linear Algebra | | Khan Academy |
| Linear Algebra | | Steven Levandosky |
| The Manga Guide to Linear Algebra | | Shin Takahashi |
| Convex Optimization | | Standford |
| Statistical Inference | | Coursera |
| Bayesian Statistics | | Coursera |
| Stats in a Nutshell | | Sarah Boslaugh |
| Think Stats: Probability and Statistics for Programmers | | Allen B. Downey |
| Think Bayes | | Allen B. Downey |

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| Differential Equations in Data Science | URX |
| Problem-Solving Heuristics "How To Solve It" | G. Polya |
| Data Science Toolbox | Jeroen Janssens |
| Algorithms Design & Analysis | Coursera |
| Algorithm Design | Jon Kleinberg |
| Intro to Hadoop and MapReduce | Udacity |
| Introduction to Databases | Stanford |
| SQL School | Mode Analytics |
| SQL Tutorials | SQLZoo |
| Mining Massive Data Sets | Jure Leskovec |
| Mining The Social Web | Matthew A. Russell |
| Introduction to Information Retrieval | Christopher D. Manning |
| Machine Learning | Coursera |
| A Course in Machine Learning | Hal Daumé III |
| The Elements of Statistical Learning | Trevor Hastie |
| Machine Learning | Caltech |
| Programming Collective Intelligence | Toby Segaran |
| Machine Learning for Hackers | Drew Conway |
| Intro to scikit-learn | SciPy 2013 |
| Probabilistic Programming and Bayesian Methods for Hackers | Cam Davidson-Pilon |
| Probabilistic Graphical Models | Coursera |
| Neural Networks | Andrej Karpathy |
| Neural Networks | Coursera |
| Neural Networks | Stanford |
| Social and Economic Networks: Models and Analysis | Coursera |
| Social Network Analysis for Startups | Maksim Tsvetovat |
| From Languages to Information | Stanford |
| NLP with Python (NLTK library) | NLTK library |
| How to Write a Spelling Correcter | Norvig |
| Data Analysis in Python | Mode Analytics |
| Python for Data Analysis | Wes McKinney |
| An Example Data Science Process | Zipfian Academy |
| The Truthful Art: Data, Charts, and Maps for Communication | Alberto Cairo |
| Envisioning Information | Tufte |
| The Visual Display of Quantitative Information | Tufte |
| Information Dashboard Design: Displaying Data for At-a-Glance | Stephen Few |
| Data Visualization | University of Washington |
| Berkeley's Viz Class | Berkley's |
| Rice University's Data Viz class | Rice University |
| D3 Library | Scott Murray |
| Interactive Data Visualization for the Web | Scott Murray |

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| Learn Python the Hard Way | Zed Shaw |
| Python | Google |
| Think Python | Allen B. Downey |
| scikit-learn | Open Source |
| networkx | Open Source |
| pymc | Open Source |
| Statsmodel | Open Source |
| pyMVPA | Open Source |
| nltk | Open Source |
| genism | Open Source |
| twython | Open Source |
| matplotlib | Open Source |
| Seaborn | Open Source |
| Data Science in IPython Notebooks | Nitin Borwankar |
| A Gallery of Interesting IPython Notebooks - Pandas for Data | Open Source |
| Datasets | Open Source |
| The Life of a Data Scientist | Josh Wills |
| What Data Science Is | Hilary Mason |

| Type | Topic | Link | Free/Paid? |
|--------------------------|-----------------------------------|---|------------|
| MOOC - Massively Online | General Data Science | http://cm.dce.harvard.edu | Free |
| Book or Ebook | Learn R | http://r4ds.had.co.nz/ | Free |
| iPython Notebooks | Machine Learning | http://sebastianraschka.com | Free |
| Blog Post | Machine Learning | http://sebastianraschka.com | Free |
| Book or Ebook | Machine Learning | http://sebastianraschka.com | Paid |
| Tutorial | General Data Science | https://www.datacamp.com | Paid |
| Book or Ebook | Statistics & Machine Learning | http://statweb.stanford.edu | Free |
| Book or Ebook | Deep Learning | http://www.deeplearningbook.org | Free |
| MOOC - Massively Online | Statistics | https://www.edx.org/course | Free |
| MOOC - Massively Online | Statistics | https://www.edx.org/course | Free |
| MOOC - Massively Online | Data Analysis & Statistics | https://www.edx.org/course | Free |
| Tutorial | Learn Python | https://www.datacamp.com | Free |
| MOOC - Massively Online | SQL | https://lagunita.stanford.edu | Free |
| Book or Ebook | Forecasting | https://www.otexts.org/ | Free |
| Book or Ebook | Bayesian Data Analysis | http://www.users.csbsju.edu | Free |
| Book or Ebook | Machine Learning | http://www-bcf.usc.edu/ | Free |
| MOOC - Massively Online | Neural Networks | http://info.usherbrooke.ca | Free |
| MOOC - Massively Online | R, Data Science, Machine Learning | https://www.udemy.com | Paid |
| Machine learning project | Machine Learning, Programming | https://www.kaggle.com | Free |
| MOOC - Massively Online | Natural Language Processing | https://www.datacamp.com | Paid |
| Video and book | Statistical & Machine Learning | https://www.r-bloggers.com | Free |
| Cloud platform | Machine Learning | https://mljar.com | Paid |
| MOOC - Massively Online | Data Science | https://www.coursera.org | Paid |
| MOOC - Massively Online | General Data Science | https://www.edx.org/course | Free |
| Book or Ebook | General Data Science | https://weaponsofmath.com | Paid |
| Book or Ebook | Computer Vision | http://szeliski.org/Book | Free |
| MOOC - Massively Online | General Data Science | https://www.coursera.org | Free |
| Book | General Data Science | https://www.amazon.com | Paid |
| Video | Linear Algebra & Programming | https://www.khanacademy.org | Free |
| Book | Linear Algebra & Programming | https://www.amazon.com | Paid |
| Book | Linear Algebra & Programming | https://www.amazon.com | Paid |
| MOOC | Convex Optimization | http://stanford.edu/class | Free |
| MOOC | Statistics | https://www.coursera.org | Free |
| MOOC | Statistics | https://www.coursera.org | Free |
| Book | Statistics | https://www.amazon.com | Paid |
| Book | Statistics | http://greenteapress.com | Free |
| Book | Statistics | http://greenteapress.com | Free |

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| Tutorial | Differential Equations & http://nbviewer.jupyter.c | Free |
| Book | Problem Solvin https://www.amazon.co | Paid |
| Tutorial | Tech Environment http://datasciencetoolbo | Free |
| MOOC | Algorithms https://www.coursera.or | Free |
| Book | Algorithms https://www.amazon.co | Free |
| MOOC | Distributed Computing P https://www.udacity.com | Free |
| MOOC | Databases https://lagunita.stanford | Free |
| Tutorial | Databases https://community.mod | Free |
| Tutorial | Databases http://sqlzoo.net/wiki/S | Free |
| Book | Data Mining http://i.stanford.edu/~u | Free |
| Book | Data Mining https://www.amazon.co | Free |
| Book | Data Mining http://nlp.stanford.edu/ | Free |
| MOOC | Machine Learning - Foun https://www.coursera.or | Free |
| Book | Machine Learning - Foun http://ciml.info/ | Free |
| Book | Machine Learning - Foun http://statweb.stanford.c | Free |
| Video | Machine Learning - Foun http://work.caltech.edu/ | Free |
| Book | Machine Learning - Pract https://www.amazon.co | Paid |
| Book | Machine Learning - Pract http://nbviewer.jupyter.c | Paid |
| Tutorial | Machine Learning - Pract https://www.youtube.co | Free |
| Tutorial | Probabilistic Modeling https://github.com/Cam | Free |
| MOOC | Probabilistic Modeling https://www.coursera.or | Free |
| Tutorial | Deep Learning (Neural N http://karpathy.github.io | Free |
| MOOC | Deep Learning (Neural N https://www.coursera.or | Free |
| MOOC | Deep Learning (Neural N http://cs224d.stanford.e | Free |
| MOOC | Social Network & Graph / https://www.coursera.or | Free |
| Book | Social Network & Graph / https://www.amazon.co | Paid |
| MOOC | Natural Language Proces http://web.stanford.edu/ | Free |
| Book | Natural Language Proces http://www.nltk.org/boc | Free |
| Tutorial | Natural Language Proces http://norvig.com/spell- | Free |
| Tutorial | Data Analysis https://community.mod | Free |
| Book | Data Analysis https://www.amazon.co | Paid |
| iPython Notebook | Data Analysis http://nbviewer.jupyter.c | Free |
| Book | Data Communication and https://www.amazon.co | Paid |
| Book | Data Communication and https://www.amazon.co | Paid |
| Book | Data Communication and https://www.amazon.co | Paid |
| Book | Data Communication and https://www.amazon.co | Paid |
| Course | Data Communication and http://courses.cs.washin | Free |
| Course | Data Communication and http://vis.berkeley.edu/c | Free |
| Course | Data Communication and http://had.co.nz/stat645 | Free |
| Tutorial | Data Communication and http://alignedleft.com/ti | Free |
| Tutorial | Data Communication and http://chimera.labs.oreil | Paid |

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|--------------------------------|----------------------|---|------|
| Book | Learn Python | https://learnpythonthehardway.org/ | Free |
| Tutorial | Learn Python | https://developers.google.com/edu/python/ | Free |
| Book | Learn Python | http://greenteapress.com/thinkpython/ | Free |
| Library - Machine Learning | Python Libraries | http://scikit-learn.org/stable/ | Free |
| Library - Networks | Python Libraries | http://networkx.github.io/ | Free |
| Library - Statistical Packages | Python Libraries | https://pypi.python.org/pypi/statsmodels | Free |
| Library - Statistical Packages | Python Libraries | http://statsmodels.sourceforge.net/ | Free |
| Library - Statistical Packages | Python Libraries | http://www.pympva.org/ | Free |
| Library - Natural Language | Python Libraries | http://www.nltk.org/ | Free |
| Library - Natural Language | Python Libraries | https://pypi.python.org/pypi/nltk | Free |
| Library - Data API's | Python Libraries | https://github.com/ryanmcalister | Free |
| Library - Visualization | Python Libraries | http://matplotlib.org/gallery/ | Free |
| Library - Visualization | Python Libraries | https://stanford.edu/~nli/ | Free |
| iPython Notebook | Machine Learning | http://learnds.com/ | Free |
| iPython Notebook | General Data Science | https://github.com/ipython/ipython-notebook | Free |
| List | Datasets | https://github.com/data-science | Free |
| Video | General Data Science | https://www.youtube.com/watch?v=KxwVj8Wz0h8 | Free |
| Video | General Data Science | https://www.youtube.com/watch?v=KxwVj8Wz0h8 | Free |

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