

Machine Learning

Linear Algebra			
Course	MIT		
	Khan Academy		
Book	Introduction to Linear Algebra		
Probabi	Probability and Statistics		
	MIT		
Course	Khan Academy		
Course	Probability Course		
	Open Intro		
	Statistical Inference	Bayes' Rule	
	Applied Linear Statistical Models	Bayesian Methods for Hackers	
Dools	An Introduction to Generalized Linear Models	Think Bayes	
Book	All of Statistics	Practical Statistics for Data Scientists	
	Computer Age Statistical Inference	A/B Testing	
	Statistics in a Nutshell	Designing with Data	
Convex Optimization			
Course	Stanford		
	Youtube		
Book	Convex Optimization	_	

Database Structure			
Type/Name		Book	Course
SQL	SQL Server	SQL Cookbook	Udemy
	Spark		Udemy
NoSQL	CouchDB		Udemy
Algorithms			
Course		Interactivepython	
		Coursera	
Book		Grokking Algorithms Algorithms in a Nutshell	

Type	Data Analytics	Data Science	Data Mining	
Course	Network Science Book Udemy Udemy Coursera	Otexts Forecasting Coursera Coursera Coursera Udemy Edx		
Book	Sampling Outlier Analysis Fraud Analytics Web Analytics 2.0	Doing Data Science The Data Science HandBook	Principles of Data Mining Introduction to Data Mining Data Mining Techniques The Elements of Statistical Learning	
More	Lean Analytics Social and Economic Networks Social Network Analysis for Startups	The Data Science HandBook Data Science for Business Causal Inference in Statistics		
Communication and Visualization				
Book	Web Scraping with Python Data Wrangling with Python Regular Expressions Cookbook	Communicating Data with Tableau Interactive Data Visualization for the Web Data Visualization with Python and JavaScript Storytelling with Data		

Machine Learning		
Cour Cour Uder Course Calte	rsera rsera my ech Book o Lectures	An Introduction to Statistical Learning Python Machine Learning Real-World Machine Learning Pattern Recognition and Machine Learning Recommender Systems Applied Predictive Modeling Fundamentals of Machine Learning for Predictive Data Analytics Reinforcement Learning: An Introduction Natural Language Processing with Python Text Analytics with Python

Algorithms	Supersived	Unspersived	Reinforcement
	Linear Regression		
Regression	Decision Trees		
	Random Forests		
	Naive Bayes classifier		
	Support Vector Machine		
Classification	Kernel Support Vector		
Classification	Logistic Regression		
	Decision Trees		
	Random Forests		
		K-Means/K-Modes	
Clustering		Hierarchical	
Clustering		Spectral	
		Density-based spatial	
Instance-based	K-Nearest Neighbours		
ilistalice-based	Learning Vector Quantization		
	Boosting		
Ensemble	AdaBoost		
	Random Forest		
		Principal Component	
Dimensionality		Linear Discriminant	
Reduction		Independent Component	
Reduction		Singular Value	
		Decomposition	
			Perceptron
Artificial			Softmax Regression
Neural Networks			Multi-layer Perceptron
			Back-Propagation

Туре	Neural Network	Deep Learning	Al
		Deep Learning Book	
Course	Coursera	Coursera	Udemy
		Udemy	
		Deep Learning	
Book	Make Your Own Neural Network	Hands-On Machine Learning	A Modern Approach
		Information Theory	

Туре	R	Python
	R for Data Science	
	R packages	Udemy
Course	Advance R	Udemy
	Coursera	Udemy
	Udemy	
		Think Python
Book	R in Action	Fluent Python
		Python for Probability, Statistics, and Machine Learning
		Python Data Science Handbook
Lib	R Lib	Python Lib /