The evolving education model – adapting to the fact paced needs of the industry

The Education Revolution





Certifications

































MODERN DATA SCIENTIST

Data Scientist, the sexiest job of the 21th century, requires a mixture of multidisciplinary skills ranging from an intersection of mathematics, statistics, computer science, communication and business. Finding a data scientist is hard. Finding people who understand who a data scientist is, is equally hard. So here is a little cheat sheet on who the modern data scientist really is.

MATH & STATISTICS

- ☆ Machine learning
- ☆ Statistical modeling
- ☆ Experiment design
- ☆ Supervised learning: decision trees, random forests, logistic regression
- ☆ Unsupervised learning: clustering. dimensionality reduction
- ☆ Optimization: gradient descent and variants

PROGRAMMING & DATABASE

- ☆ Computer science fundamentals
- ☆ Scripting language e.g. Python
- ★ Statistical computing packages, e.g., R
- ☆ Databases: SQL and NoSQL
- ☆ Relational algebra
- ☆ Parallel databases and parallel query
- ☆ MapReduce concepts
- ☆ Hadoop and Hive/Pig
- ☆ Custom reducers
- ☆ Experience with xaaS like AWS

DOMAIN KNOWLEDGE & SOFT SKILLS

- ☆ Passionate about the business
- ☆ Curious about data
- ☆ Influence without authority
- ☆ Hacker mindset
- ☆ Problem solver
- ☆ Strategic, proactive, creative, innovative and collaborative



COMMUNICATION & VISUALIZATION

- ☆ Able to engage with senior
- ☆ Story telling skills
- ☆ Translate data-driven insights into
- ☆ Visual art design
- ☆ R packages like ggplot or lattice
- ☆ Knowledge of any of visualization tools e.g. Flare, D3.js, Tableau

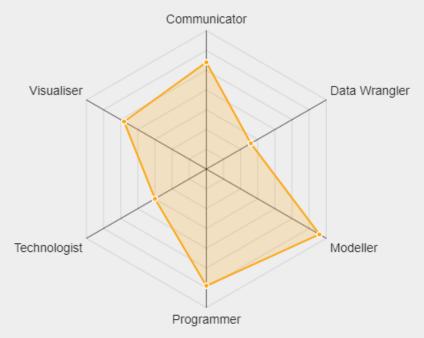
MarketingDistillery.com is a group of practitioners in the area of e-commerce marketing. Our fields of expertise include: marketing strategy and optimization; customer tracking and on-site analytics; predictive analytics and econometrics; data warehousing and big data systems; marketing channel insights in Paid Search, SEO, Social, CRM and brand.



Mango Data Science Radar Results

You are a Modeller





By creating quantitative descriptions of your data, you create insight that is a key deliverable for your team.

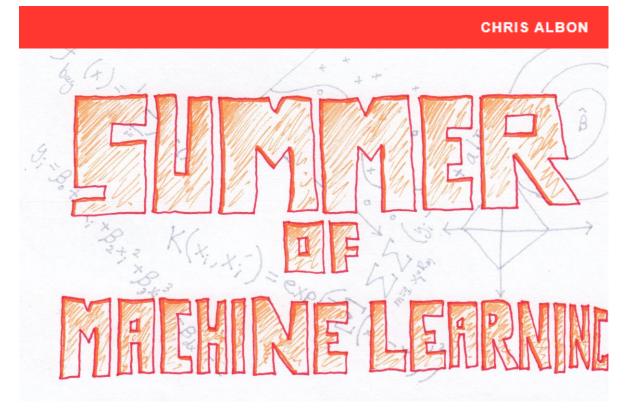
You interpret the meaningful reasons for features in a dataset.

You also pay attention to the detail of underlying assumptions, limits and exceptions when describing a system.

You are familiar with a variety of mathematical methods for describing dynamic systems and are highly skilled in using software that implements these.

You use a variety of graphical and numeric techniques to verify that you are delivering a high quality result that can be used to predict and optimise future performance.

When you are on the team, if there is information that can be gleaned from a system, you will find it.



From June 1st to September 30th I will make a four month sprint to become a better data scientist and machine learning engineer, filling the dog days of summer with reading, writing, coding, and running. And the finish line? Eight concrete, quantifiable goals for the next 122 days:

- 1. Work through 200 machine learning tutorials online.
- 2. Watch or listen to 100 hours of video lectures or podcast episodes on machine learning.
- 3. Read 20 books on relevant machine learning topics.
- 4. Create 400 #machinelearningflashcards to study and memorize.
- 5. Create 504 tutorials or posts on my personal site.
- 6. Create 100 "recipes" for a forthcoming machine learning book.
- 7. Run 500 miles.
- 8. Lose 40lbs. source: chrisalbon.com/blog

Data Science Books

Data Smart: Using Data Science to Transform Information into Insight (Aug-15)

R and Data Mining – Examples and Case Studies (Jan-16)

An Introduction to Statistical Learning with Applications in R (Mar-16)

Learning Bayesian Models with R (Mar-16)

Data Science from Scratch: First Principles with Python (Apr-16)

Getting Started with Python Data Analysis (May-16)

Python Machine Learning (Sep-16)

Mathematics Books

Statistics II for Dummies (Jan-16)

DREAMING OF DATA

a data science journey

July 2015 – Sept 2016

Data Manipulation at Scale: Systems and

Algorithms (Nov-15)

Capstone Project (Feb-16)

Khan Academy – Probability and Statistics (Jul-15)

Comprehending Behavioral Statistics (Aug-15)

Coursera – Data Analysis and Statistical Inference (Nov-15)

Statistics for Dummies (Dec-15)

Statistics Done Wrong (Feb-16)

Learning Python (Feb-16)

Hello! Python (Dec-15)

Codecademy – Python (Jul-15)

Python Data Structures (Aug-15)

Python for Informatics (Jan-16)

Hands-on Programming with R (Nov-15)

Programming Books

DataCamp – Intro to Python for Data Science & Intermediate Python

Programming for Everybody (Getting Started with Python) (Aug-15)

for Data Science (Mar-16)

qwikLABS Amazon Web Services Tutorials (Mar-16)

Apache Spark

edX & Columbia U: Data Science and Analytics XSeries

Statistical Thinking for Data Science and Analytics (Jan-16)

Machine Learning for Data Science and Analytics (Feb-16)

Coursera & University of Washington: Machine Learning

Machine Learning Foundations: A Case Study Approach

Coursera – Machine Learning: Regression (Apr-16)

Coursera – Machine Learning: Classification (May-16)

Coursera – Machine Learning: Clustering and Retrieval

Udemy - Taming Big Data with Apache Spark and Python – Hands On! (May-16) edX - Berkeley U - CS105x Introduction to Apache Spark (Aug-16)

edX - Berkeley U - CS110x Big Data

Analysis with Apache Spark (Sep-16)

Specialization

(Mar-16)

(Aug-16)

Coursera - Data Science at Scale Specialization

Practical Predictive Analytics: Models and

Methods (Nov-15)

Communicating Data Science Results (Jan-16)

Coursera – Data Science Specialization

The Data Scientist's Toolbox (Jul-15)

Stanford Natural Language Processing Video Series (Apr-16)

R Programming (Aug-15)

Other Data Science Related Courses Coursera – Machine Learning (Sep-15)

Stanford's Statistical Learning (Feb-16)

Podcasts I Listen To (Mar-16)

Kaggle & the Titanic Data Tutorial (Dec-15)

Mathematical Monk - Machine Learning (Feb-16)

Getting and Cleaning Data (Aug-15)

Exploratory Data Analysis (Sep-15)

Reproducible Research (Oct-15)

Statistical Inference (Nov-15)

Regression Models (Dec-15)

Practical Machine Learning (Jan-16)

Developing Data Products (Feb-16)

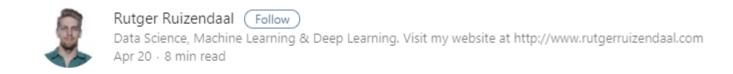
General Books

Predictive Analytics: The Power to Predict Who Will Click, Buy, Lie, or Die (Jan-16)

The Theory That Would Not Die: How Bayes' Rule Cracked the Enigma Code, Hunted Down Russian Submarines, and Emerged Triumphant from Two Centuries of Controversy (Apr-16)

The Signal and the Noise: Why So Many Predictions Fail – but Some Don't (Nate Silver) (Aug-16)

source: dreamingofdata.wordpress.com



My Journey into Data Science

Welcome to my blog!



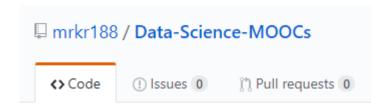


ON AUGUST 16, 2015 / BY DEVENDRADESALE / IN DATA SCIENCE



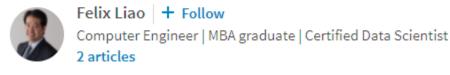
How to begin your own data science journey!

My Coursera Data Science Specialisation Journey



No description, website, or topics provided.

Published on September 4, 2016

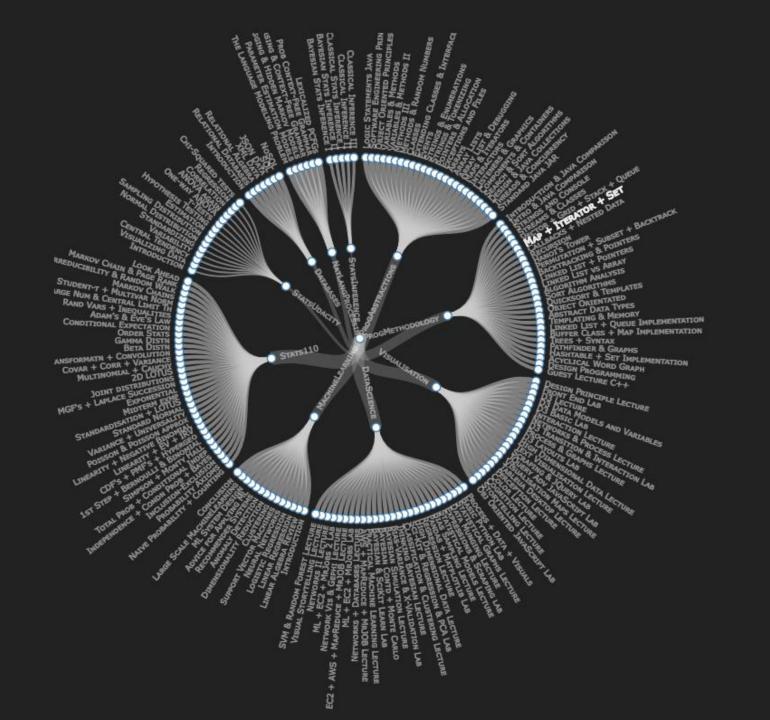




19







CrowdANALYTIX Modeling Analyzing Telemetry Data To Understand What Makes A Racing Champion 2 Years Ago 522 Solvers **P** US\$ 7,500 Public #Modeling

analyticbridge | A Data Science Central Community



Challenge of the Week

Posted by Vincent Granville on May 14, 2014 at 6:19pm in Data Mining Software H View Discussions

The purpose here is to show that with big data, the risk associated with spurious correlations is high. If you are anti big-data (you don't like the hype), this is your chance to make a valid point about reckless processing of big data.

DRIVENDATA



2 MONTHS, 2 WEEKS LEFT

Using environmental data collected by various U.S. Federal Government agencies—from the Centers for Disease Control and Prevention to the National Oceanic and Atmospheric Administration in the U.S. Department of Commerce-can you predict the number of dengue ...



COMPETE >

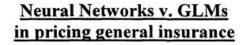




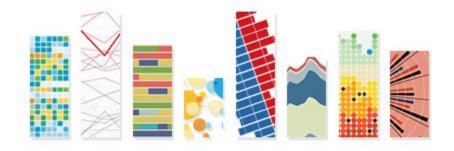
Neural Networks Demystified

Louise Francis, FCAS, MAAA









Actuaries in Data Analytics

Young Data Analytics
Working Group



DAWG Education Sub-Committee

Actuaries

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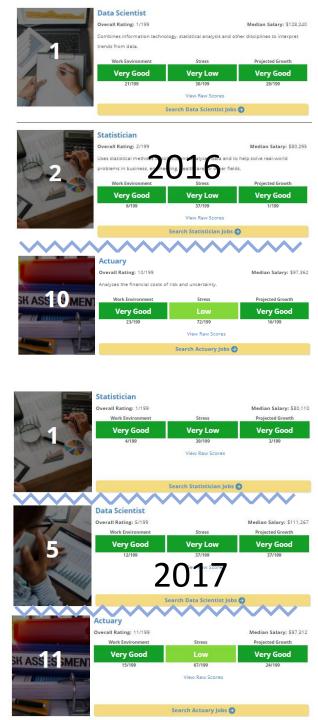


It's official

being an actuary is the best job!

By Estelle Pearson Posted on: May 14, 2015





2018
Actuary?
Data Scientist?







"A data scientist is a statistician who lives in San Fransisco" #monkigras

10:13 PM - Jan 30, 2014

Q 61 1,471 \(\text{890}