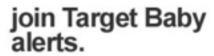
DATA SCIENCE IMMERSIVE

WHAT IS DATA SCIENCE?

BUT FIRST, A STORY...







coupons, deals and more.



"message and data rates may apply, text HELP to 827438 for info. text \$27438 for cancel (confirmation text or further instructions will be sent), up to 5 messages per month.













Target using her purchase history alone had predicted his daughter's pregnancy.



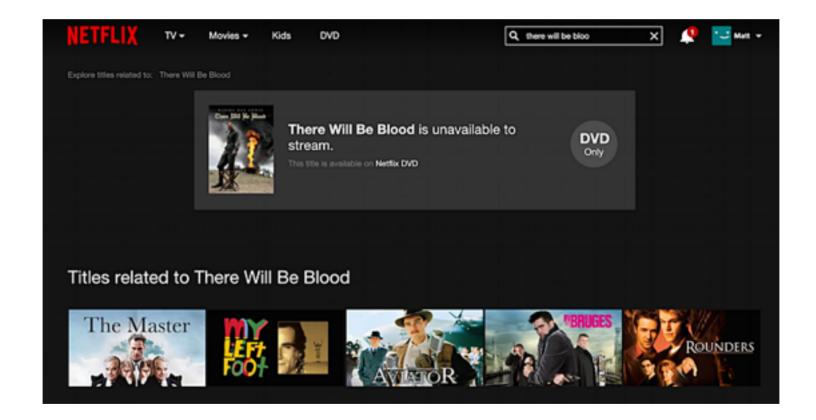
UH, OK, BUT WHY...?

Research shows that one of the very few times in their lives that people change their purchase behaviors and are receptive to new products is with the birth of a child. Because of this, if you can predict when they're likely to be expecting you can influence their purchase habits.

#DATASCIENCE

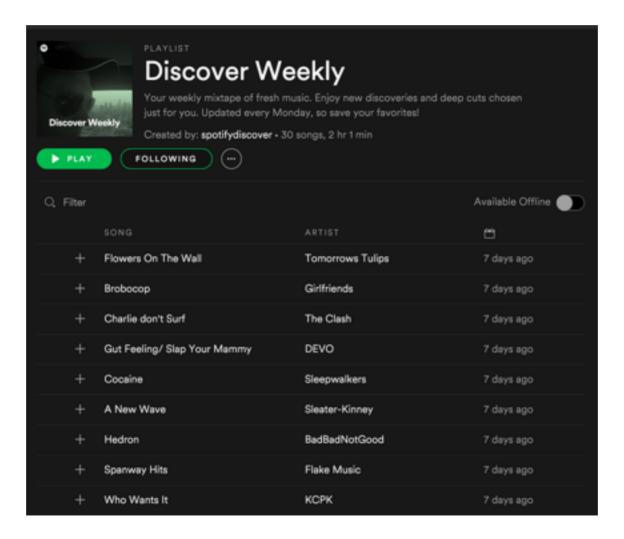
WHAT ELSE?

Netflix Recommendations

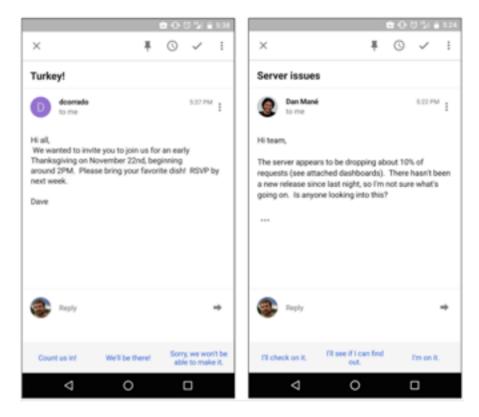




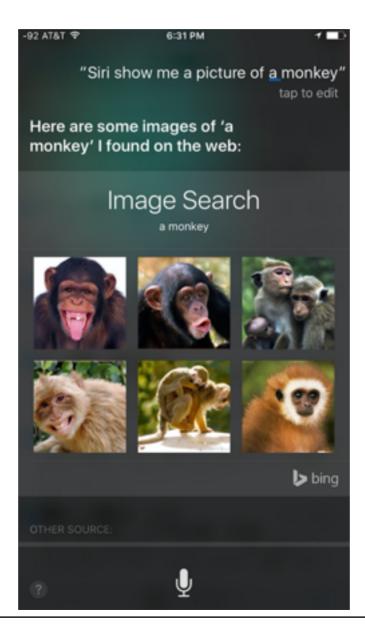
Spotify Discover Weekly

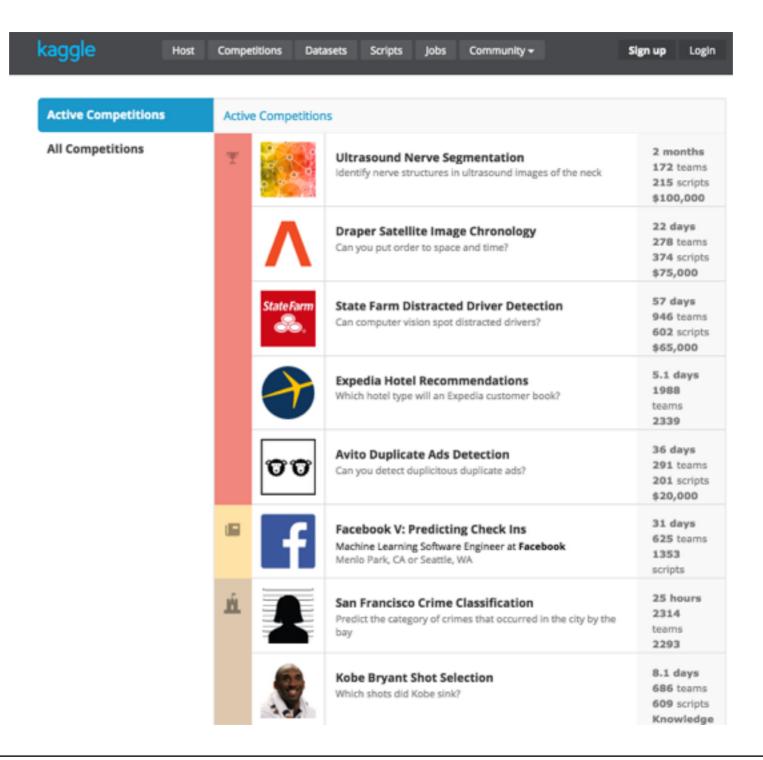


Google SmartReply



Siri: Speech Recognition



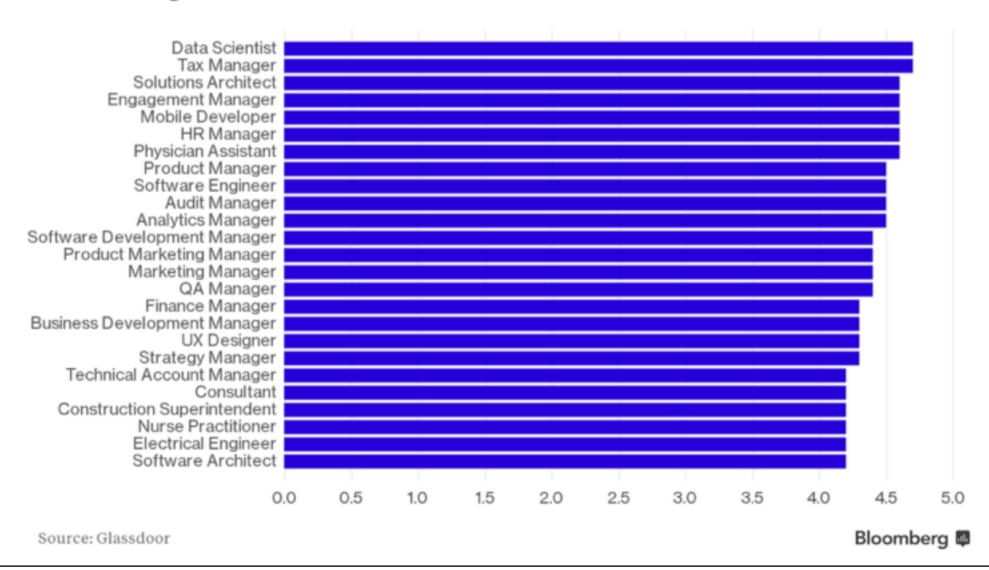


MHYBEA SCIENTIST?

What Bloomberg Says...

Best Jobs For 2016

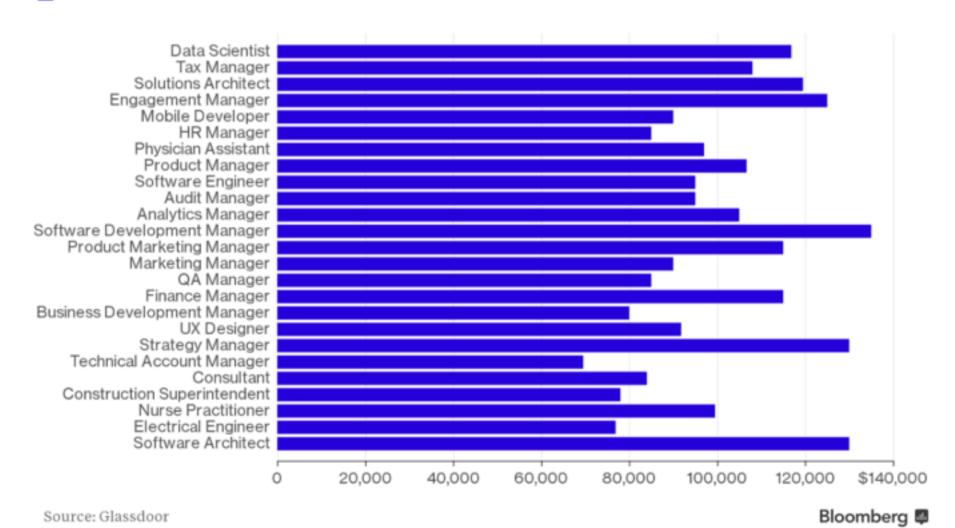
Overall ranking



What Bloomberg Says...

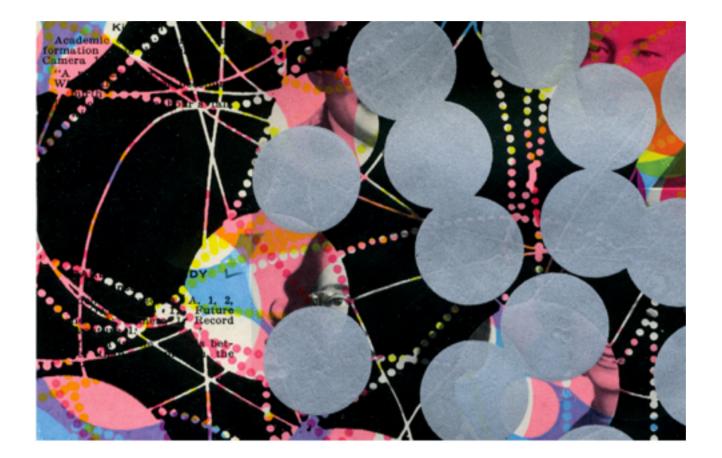
Best Jobs For 2016

Salaries



What HBR Says...

Harvard Business Review



Data Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport and D.J. Patil

FROM THE OCTOBER 2012 ISSUE









BUY COPIES

WHAT SKILLS ARE REQUIRED?

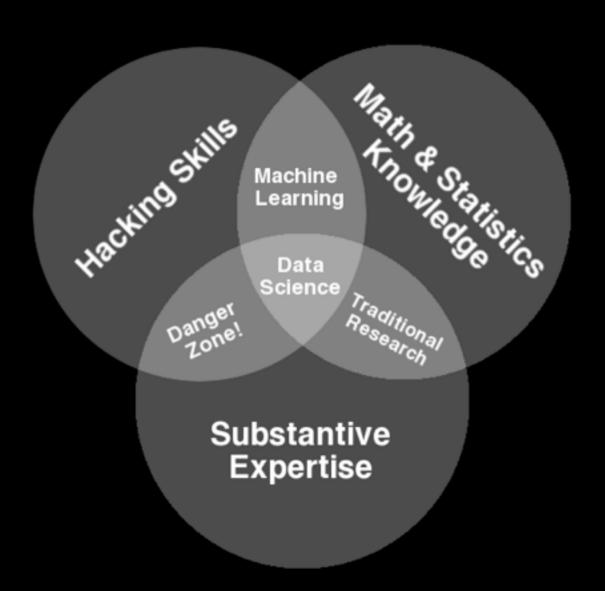
The Most Famous Tweet in Data Science History...



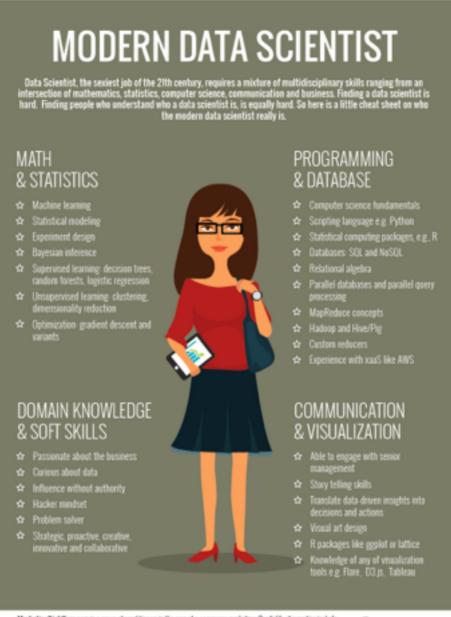


Data Scientist (n.): Person who is better at statistics than any software engineer and better at software engineering than any statistician.

The Most Famous Venn Diagram in Data Science...



The Data Scientist's Skill Set



MarketingBird filery com it a group of practitioners in the area of e-commerce marketing. Our fields of expertise includemarketing statlegy and optimization customer tracking and on-site analytics; predictive analytics and econometrics: data warehousing and log data-systems marketing channel imagins in Paid Search, SBD, Social, CRM and brand.



DATA SCIENCE WORKFLOW

The Data Science Workflow



LET'S TALK CURRICULUM &

Curriculum

Unit Breakdown

Unit	Title	Lessons	Topics
Unit 1	Data Science Foundations	Weeks 1-	Programming Fundamentals, Pandas & EDA, Linear Regression
Unit 2	Supervised Learning Algorithms	Weeks 4-	Logistic Regression, Classification, Databases, Ensemble Models
Unit 3	Advanced Modeling Techniques	Weeks 7- 9	Unsupervised Learning, Bayes, Time Series
Unit 4	Data Science Careers	Weeks 10-12	Spark & Big Data, Portfolios, Presentations

Projects

Projects

- Project 1: SAT Scores + Summary Statistics
- Project 2: Billboard Hits + Data Munging
- Project 3: Liquor Sales + Linear Regression
- Project 4: Web Scraping + Logistic Regression
- Project 5: Disaster Reflief + Classification
- Project 6: IMDB API + Random Forests
- Project 7: Airport Delays + Cluster Analysis

- Part 1: Capstone Topic + Dataset Validation
- Part 2: Problem Statement + Exploratory Data Analysis
- Part 3: Progress Report + Preliminary Findings
- Part 4: Report Writeup + Technical Analysis
- Part 5: Presentation + Recommendations

Heading

Feedback - Rubric

Requirements	Incomplete (0)	Does Not Meet Expectations (1)	Meets Expectations (2)	Exceeds Expectations (3)
Identify: Discuss Data				
Acquire: Load Data with Python				n/a
Parse: Print Data				n/a
Mine: Sort Data				n/a
Refine: Analyze Data				n/a
Present: Visualize Data				Bonus: Use Tableau
Bonus! Present: Create blog post summary				

Q&A

THANK YOU.

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- winston.featherly-bean@ga.co
- daniel.yawitz@ga.co