Data Science:

Getting Value out of Big Data

After this video you will be able to...

- Describe what modern data science is and its connections to big data
- Explain why data science is the key to getting value out of big data
- List the right set of skills for a data scientist to fit your organization

Big Data Insight Action **Data Science**

Insight Data Product

Big Data

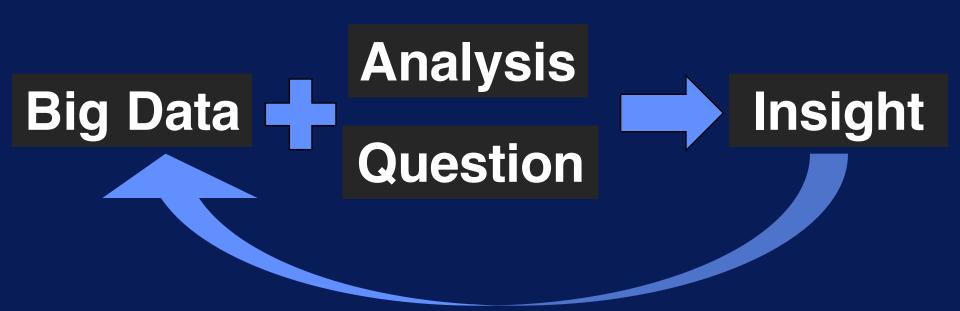
Analysis

Question



Insight

Insight Data Product



Book Recommendations

Customer Demographic

Previous Purchases

Book reviews



What kind of books does this customer like?



Book recommendations

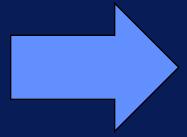


Find Potential Audience for a Book

Model of customer's book preferences



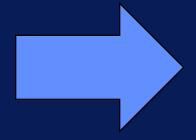
New book information



Who is likely to like this book?

Market a New Book

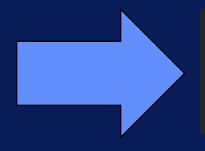
Who is likely to like this book?



Action to market the book to the right audience

Market a New Book

Who is likely to like this book?



Action to market the book to the right audience

Insight



Action

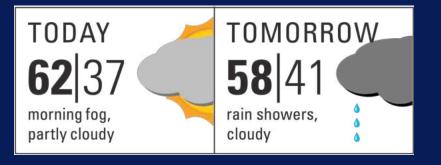
Actionable Information



Historical data Near real-time data

Prediction

Prediction

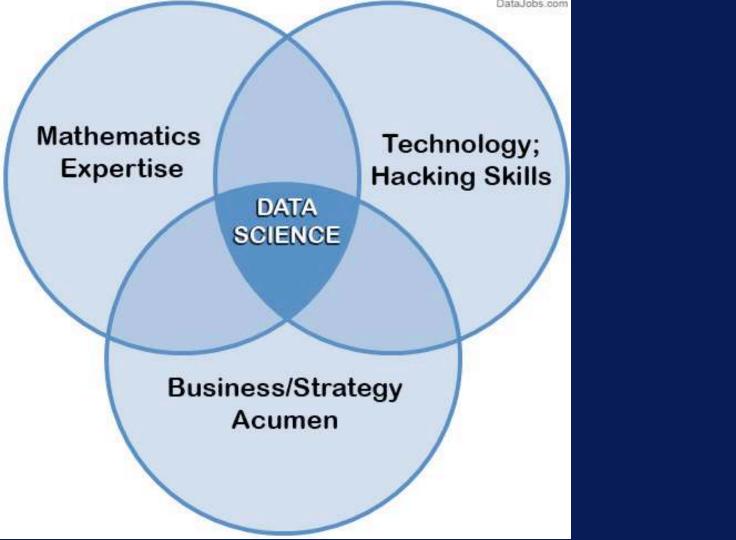


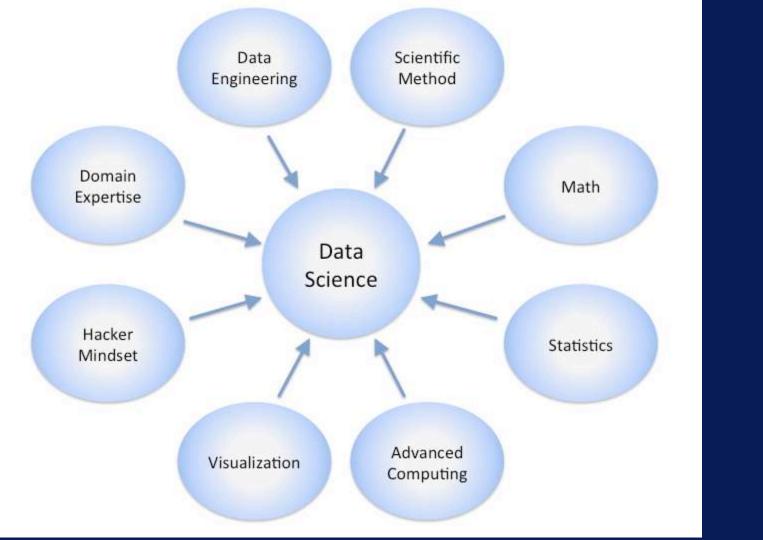
Action





Data Science is Team Work!





MODERN DATA S

Data Scientist, the sexiest job of 21th century requires a mixture of intersection of mathematics, statistics, computer science, comm scientist is hard. Finding people who understand who a data scien cheat sheet on who the modern data scie

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
- ☆ Bavesian inference
- ☆ Supervised learning decision trees.
- dimensionality reduction

MATH & STATISTICS

- ☆ Machine learning

- ☆ Bayesian inference
- Supervised learning decision trees. random forests, logistic regression



DOMAIN KNOWLEDGE & SOFT SKILLS

- ☆ Curious about data
- ☆ Influence without authority
- ☆ Hacker mindset



PROGRAMMING & DATABASE

- ☆ Statistical computing packages, e.g., R
- ☆ Relational algebra
- ☆ MapReduce concepts

- ♠ Experience with xaaS like AWS

COMMUNICATION & VISUALIZATION

- ☆ Able to engage with senior
- ☆ Translate data-driven insights into
- ☆ Visual art design
- ☆ Knowledge of any of visualization tools e.g. Flare, D3 is, Tableau



- ☆ Passionate about the business
- ☆ Influence without authority
- ☆ Hacker mindset
- ☆ Problem solver



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

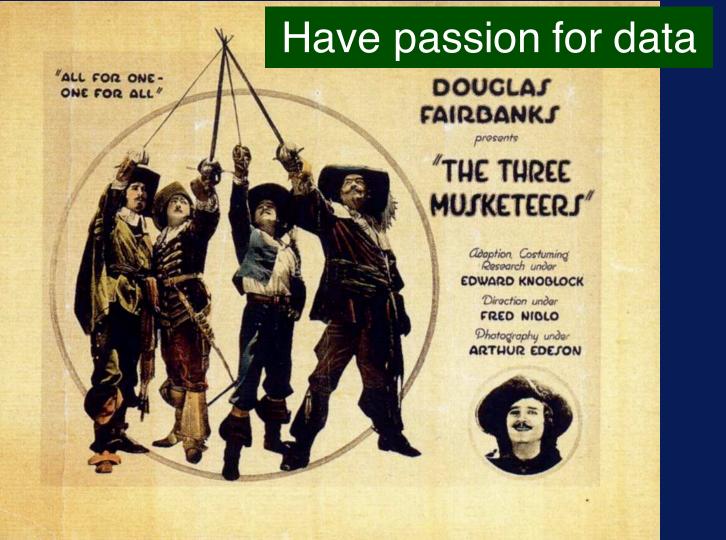
MarketingDistillery.com is a group of practitioners in the area of e-commerce marketing. Our fields of expertise include: marketing strategy and optimization: customer tracking and on-site analytics; predictive analytics and econometrics; data warehousing and big data systems: marketing channel insights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

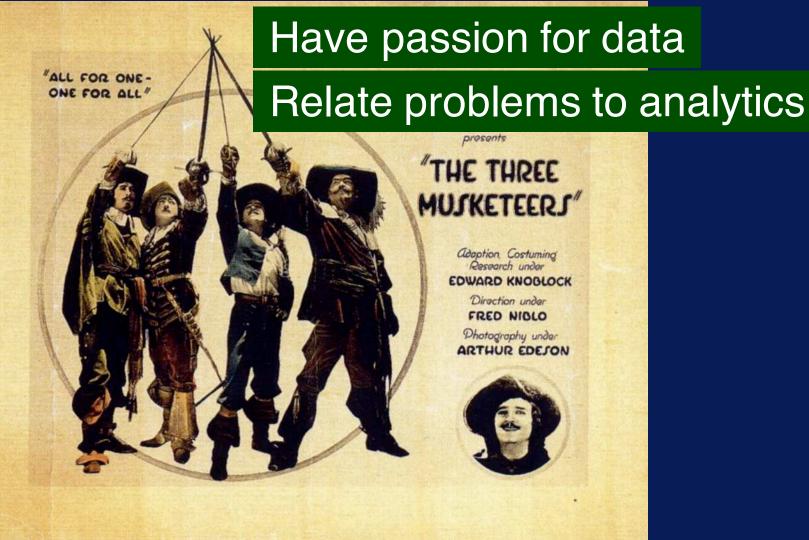


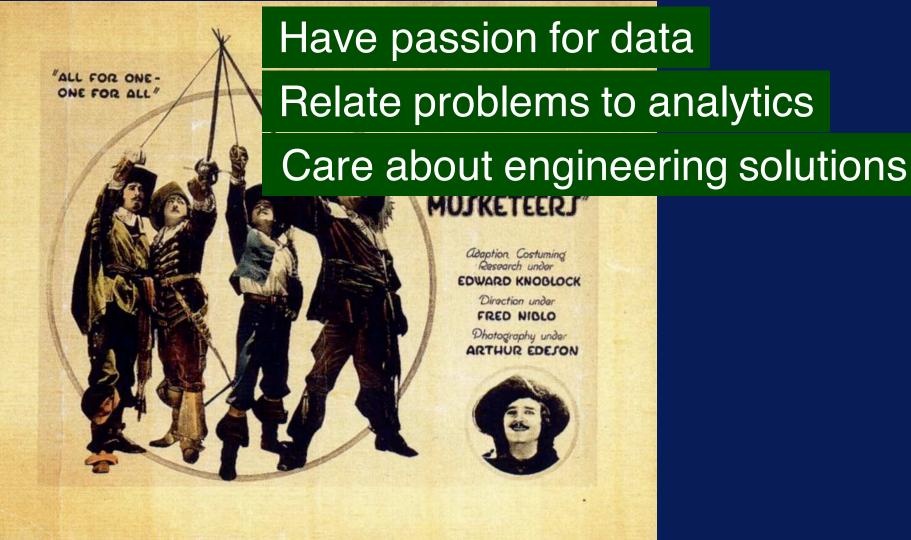


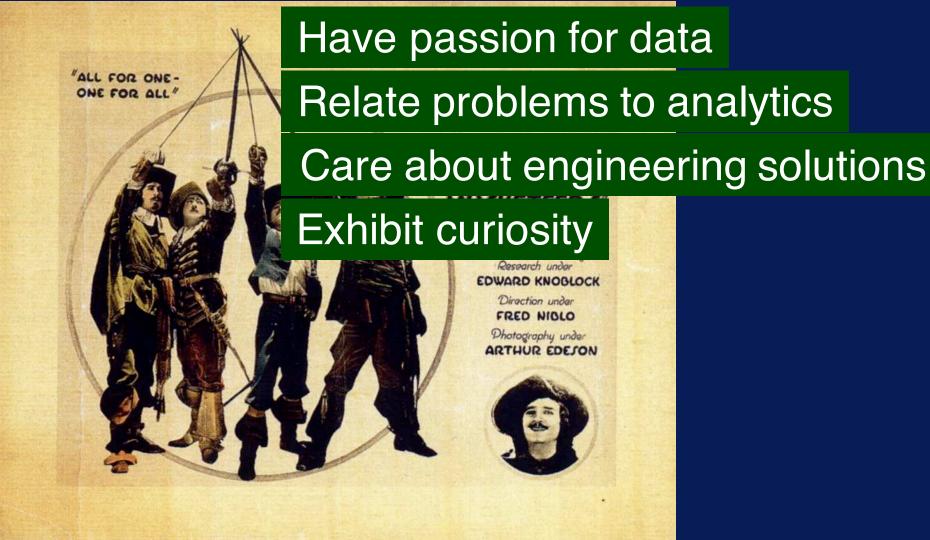
Are data scientists unicorns?















Data Science The sum is bigger than the parts!

Big Data



Actionable Insight

Data Scientist **Technical Skills**

Business Skills

Soft Skills