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

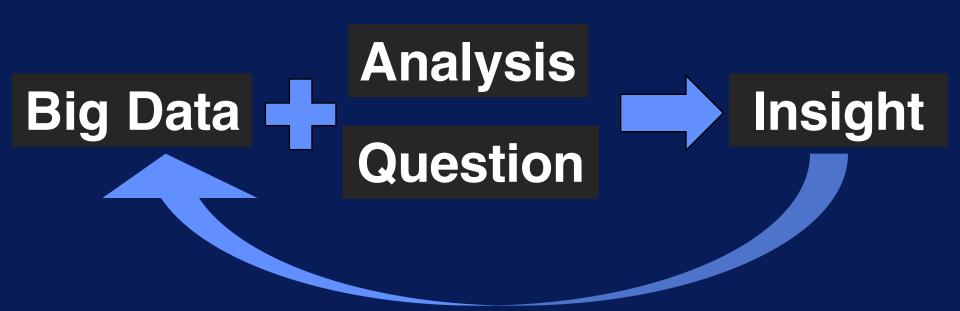
Analysis

Question



Insight

Insight Data Product



Book Recommendations

Customer Demographic

Previous Purchases

Book reviews



What kind of books does this customer like?



Book recommendations

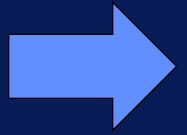


Find Potential Audience for a Book

Model of customer's book preferences



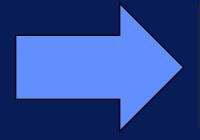
New book information



Who is likely to like this book?

Market a New Book

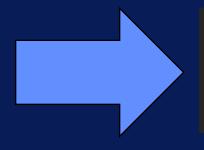
Who is likely to like this book?



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

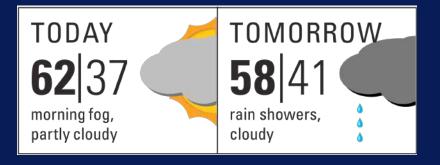
Actionable Information



Historical data Near real-time data

Prediction

Prediction

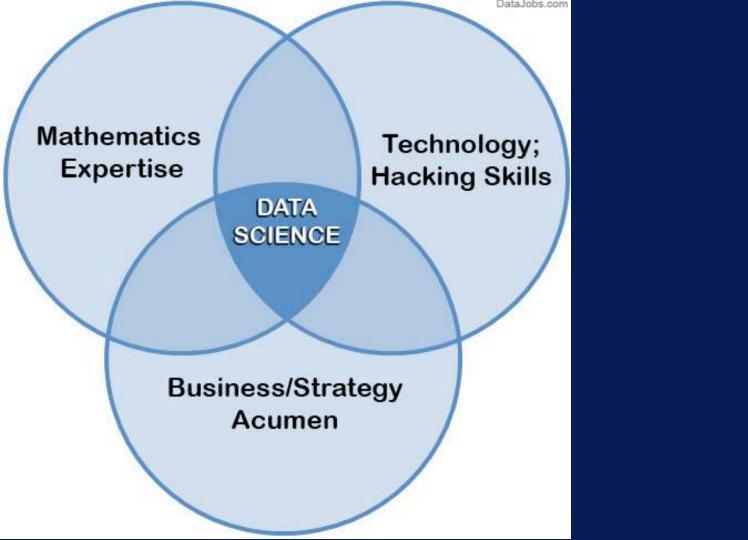


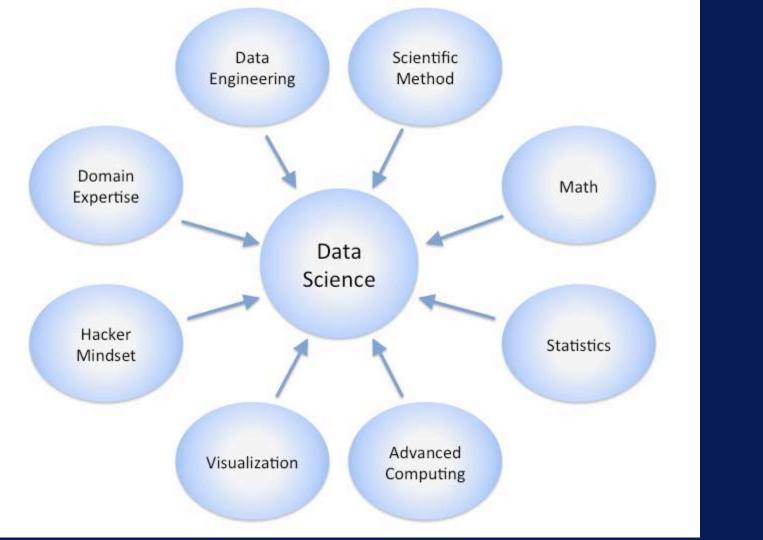
Action





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
- ☆ Bayesian inference
- ☆ Supervised learning: decision trees.

MATH & STATISTICS

- ☆ Supervised learning decision frees.
- dimensionality reduction



DOMAIN KNOWLEDGE & SOFT SKILLS

- ☆ Influence without authority
- ☆ Hacker mindset

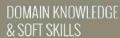


PROGRAMMING & DATABASE

- ☆ Statistical computing packages e.g. R.
- □ Databases: SOL and NoSOL
- ☆ Relational alpelua
- ☆ MapReduce concepts
- ☆ Hadoop and Hive/Pig
- ☆ Experience with xaaS like AWS

COMMUNICATION & VISUALIZATION

- ☆ Visual art design
- ☆ Knowledge of any of visualization tools e.g. Flare, D3 is, Tableau



☆ Passinnate about the business

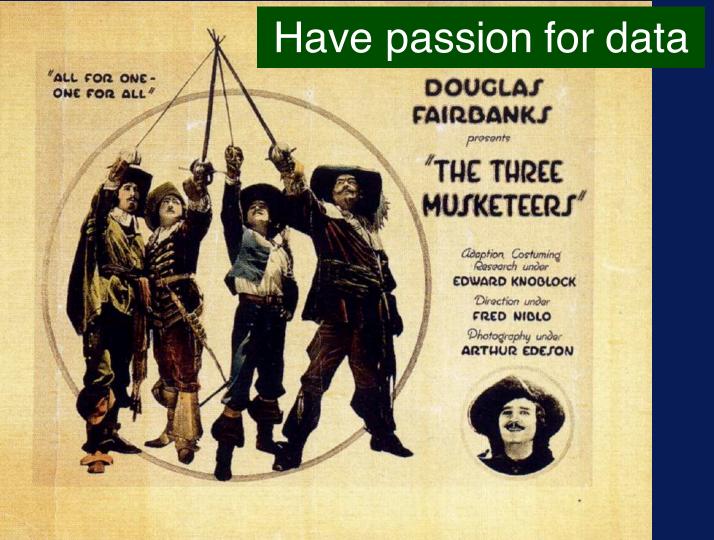
- ☆ Influence without authority
- ☆ Hacker mindset
- innovative and collaborative

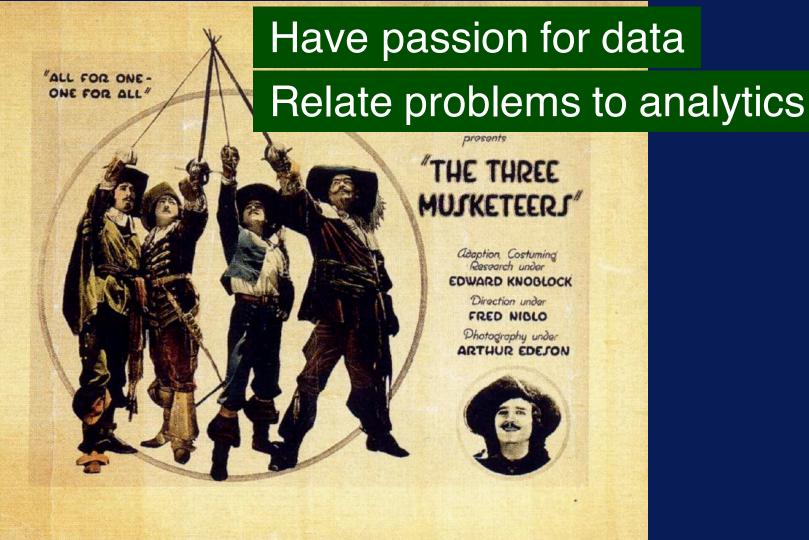


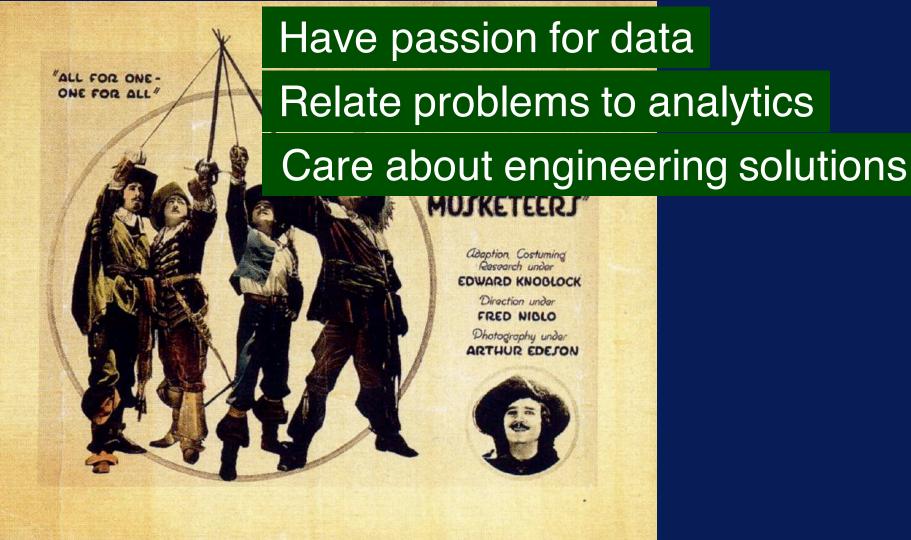


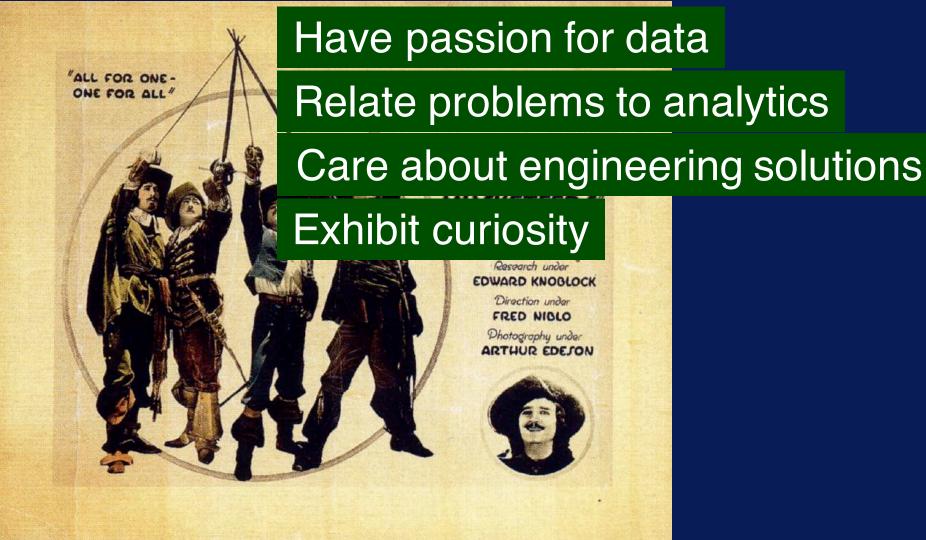
Are data scientists unicorns?















Data Science The sum is bigger than the parts!

Big Data



Actionable Insight

Data Scientist **Technical Skills**

Business Skills

Soft Skills