

Careers in Data Science

Transitioning from Academia to Industry

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Insight Data Science

PIEP Workshop
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The logo for Insight Data Science, featuring the word "INSIGHT" in a bold, sans-serif font. The text is contained within a white rectangular box with a thin black border. Small black squares are positioned at the top-left and bottom-right corners of the box.

INSIGHT





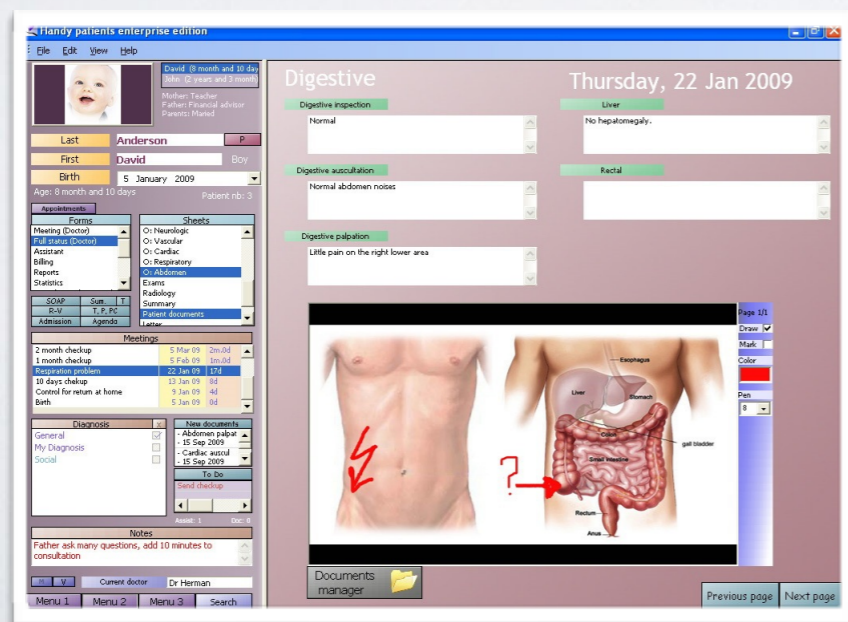
**Massachusetts
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Technology**



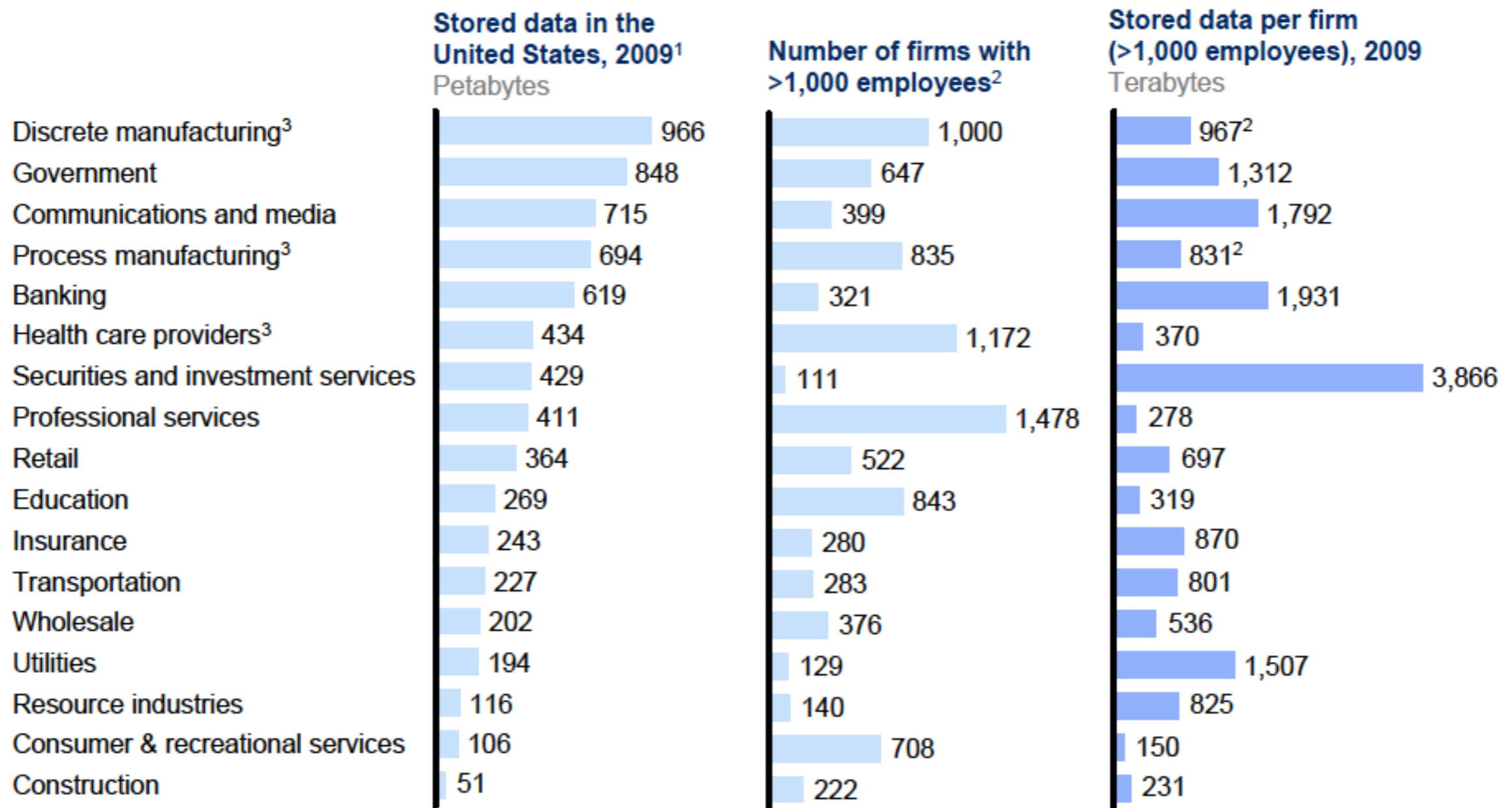
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INSIGHT

Data Is Growing Exponentially



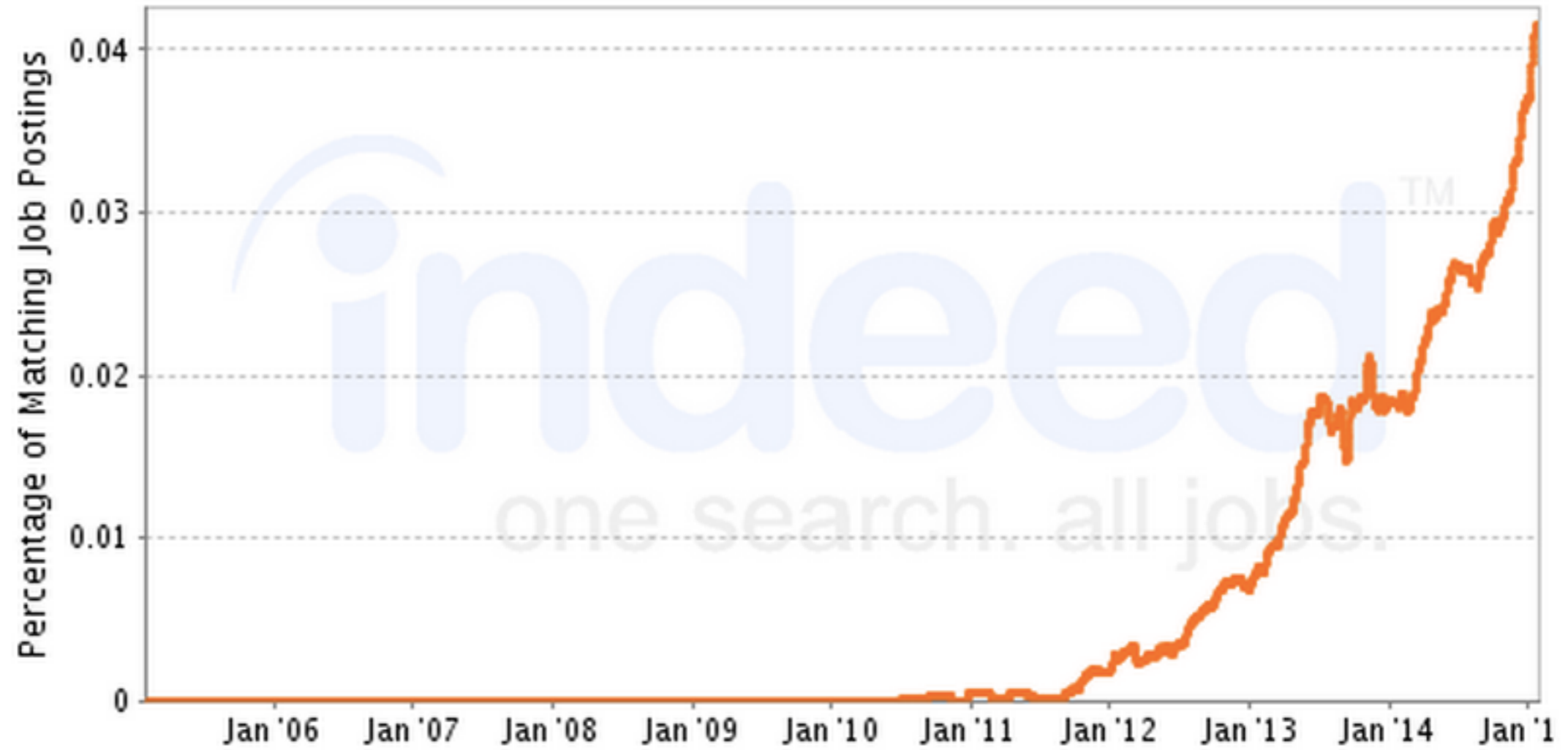
Companies in all sectors have at least 100 terabytes of stored data in the United States; many have more than 1 petabyte



SOURCE: IDC; US Bureau of Labor Statistics; McKinsey Global Institute analysis, 2011

Job Trends from Indeed.com

— "data science"



140,000–190,000

more deep analytical talent positions, and

1.5 million

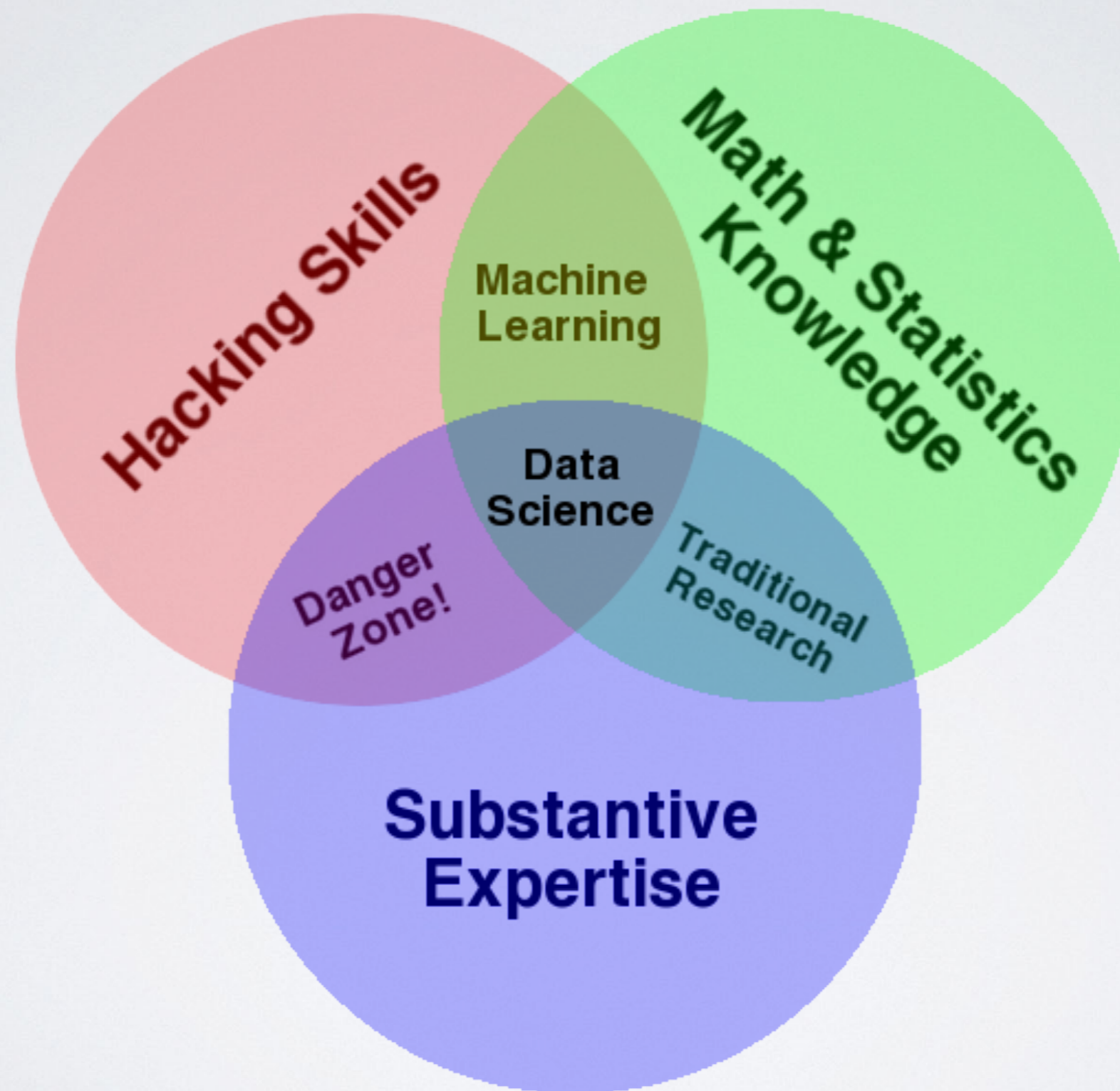
more data-savvy managers
needed to take full advantage
of big data in the United States

Source: McKinsey Global Institute analysis, 2011

“The best data scientists tend to be
‘hard scientists,’ rather than
computer science majors.”

- DJ Patil

WHAT IS DATA SCIENCE?



THE GAP

1. Tools
2. Context
3. Pace
4. Priorities

BRIDGING THE GAP



INSIGHT

EVIDENCE OF INTEREST

Build a data project.

Show off your:

Initiative

Technical Ability

Product Sense

GATHER INTEL

Do some informational interviews.

Ask questions like:

What is your data science stack/toolset?

Do you work on production-level tools?

How big is the data science team at your company?

CONNECT

Stay informed.

Check out:

Meetup groups (or start your own)

Hacker News

Data Science Weekly

LinkedIn

EVIDENCE OF INTEREST

Build a data project

GATHER INTEL

Do some informational interviews

CONNECT

LinkedIn, Twitter, meetups



JP



ERIN



ANDRE



COLIN



ZHIYING



KEOKI



PUNEETH



EFRAIM



WARREN



MEGAN



ERIC



LAUREN



SHIH-HO



NICK T.



XIAOYING



PRAVEEN



AARON



LISA



MATTHEW



KEVIN S.



JINGJING



DANIEL



JOSHUA



KRYSTAL



CINNA



KEVIN T.



TA



DIANE



ONKAR



NAN



YAN



TERRY



JESSICA



JOE



ADRIAN



GIOVANNA



DOUG



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AASTHA



NICK B.



JULIA



DAVID



SHELBY



GEORGE



BERIAN



LEAH



DOMINIQUE



JUSTIN

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and
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Engineers

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January 2016, June 2016

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WHITE PAPER

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INSIGHT

Program Timeline



AREAS OF FOCUS

Product Analytics

Predictive Modeling (e.g. Risk, Sales)

Data Products

MANY QUESTIONS IN DATA SCIENCE

Khan Academy: Millions of math problems are attempted online per day. When is someone proficient? What is the best problem order?

The New York Times and The Wall Street Journal:
What is the right payment model for journalism?

LinkedIn: Does this LinkedIn account correspond to a real person?

MANY QUESTIONS IN DATA SCIENCE

Netflix: What new shows should we make?

Memorial Sloan Kettering Cancer Center: Who is a good candidate for clinical trials?

Everywhere: What are some efficient ways in which the data can be stored, streamed, or accessed?

DATA PROJECTS

- [lendinglounge.rodeo](#)
- [reviewskimmer.com](#)
- [hammerpricer.com](#)
- [beautifulcity.me](#)
- [routearoundcrime.com](#)