



A soccer ball with black and white panels is resting on a patch of dry, brownish-yellow grass. The ball appears slightly deflated and has some dark spots or stains on its surface. The background is out of focus, showing more of the same dry grass under bright sunlight.

Is Data Scientist still the Sexiest job of the 21st century?

By Komes Chandavimol
Dev Mountain Khaoyai 2022

DATA

Data Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport and D.J. Patil

FROM THE OCTOBER 2012 ISSUE

 SUMMARY  SAVE

It's a high-ranking professional with the training and curiosity to make discoveries in the world of **BIG DATA**,

When Jonathan Goldman arrived for work in June 2006 at LinkedIn, the business networking site, the place still felt like a start-up. The company had just under 8 million accounts, and the number was growing quickly as existing members invited their friends and colleagues to join. But users weren't seeking out connections with the people who were already on the site at the rate executives had expected. Something was apparently missing in the social experience. As one LinkedIn manager put it, "It was like arriving at a conference reception and realizing you don't know anyone. So you just stand in the corner sipping your drink—and you probably leave early." Goldman, a PhD in physics from Stanford, was intrigued by the linking he did see going on and by the richness of the user profiles. It all made for messy data and unwieldy analysis,

WHAT TO READ NEXT

[Big Data: The Management Re](#)

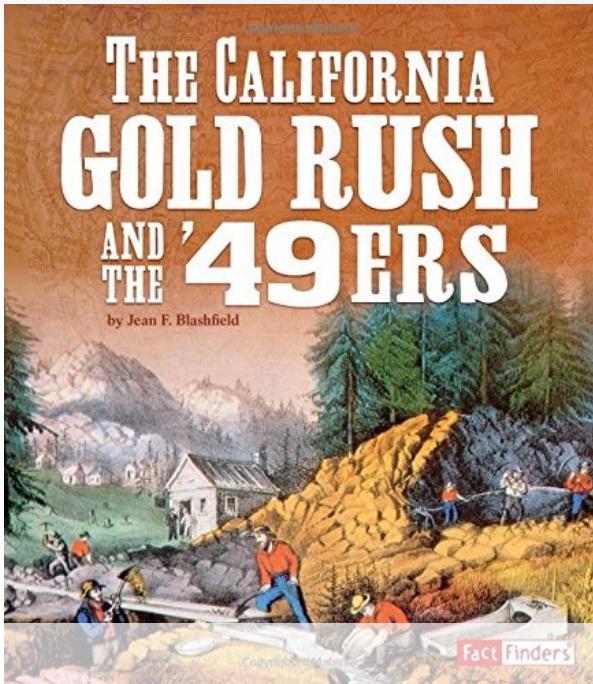
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October 2012 Issue

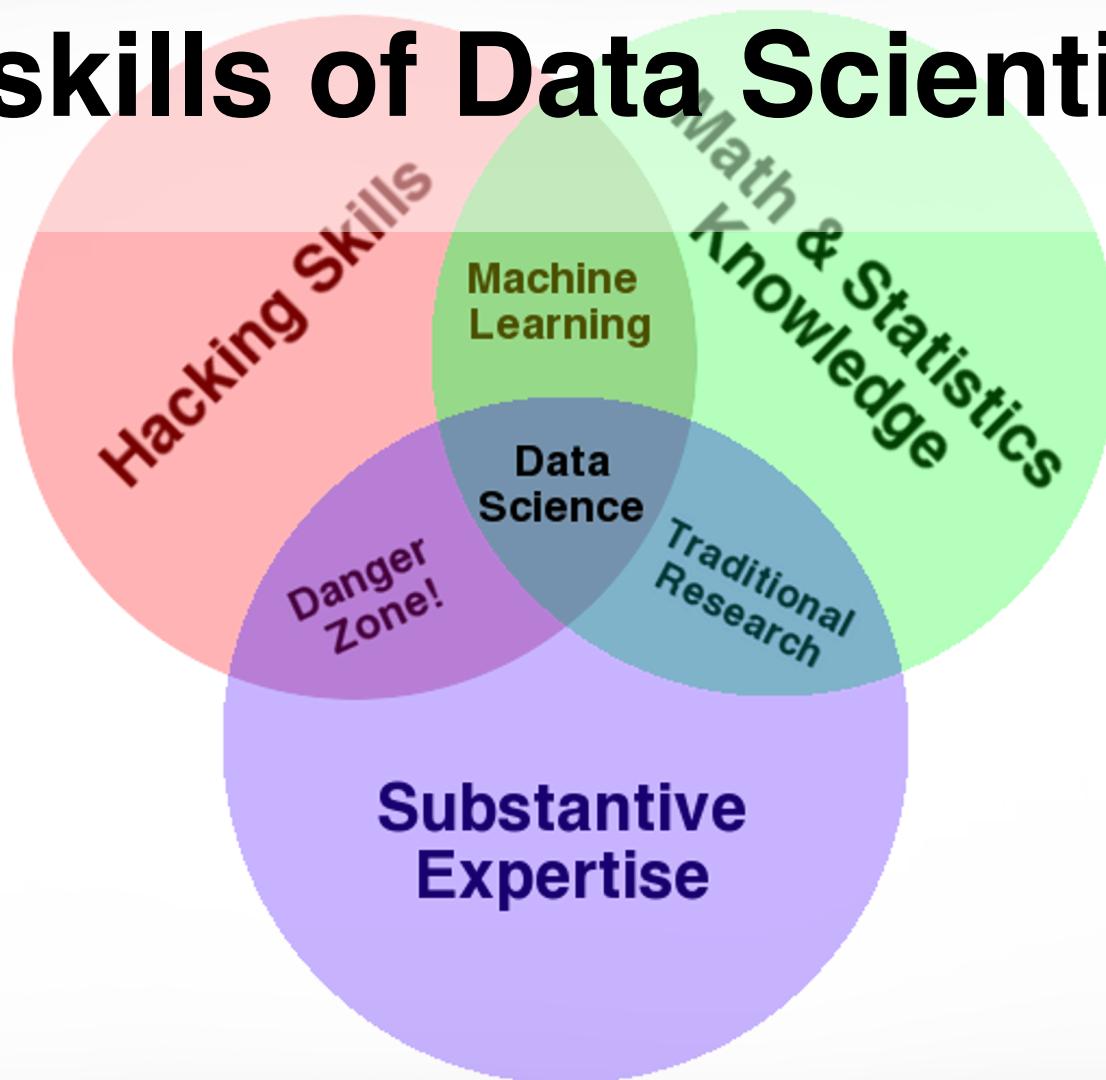




Data is difference from Gold & Oil



The skills of Data Scientist



The Sexiest Job of the 21st Century is Tedious, and that Needs to Change

by Sean Kandel

APRIL 01, 2014

Something needs to be changed



SAVE



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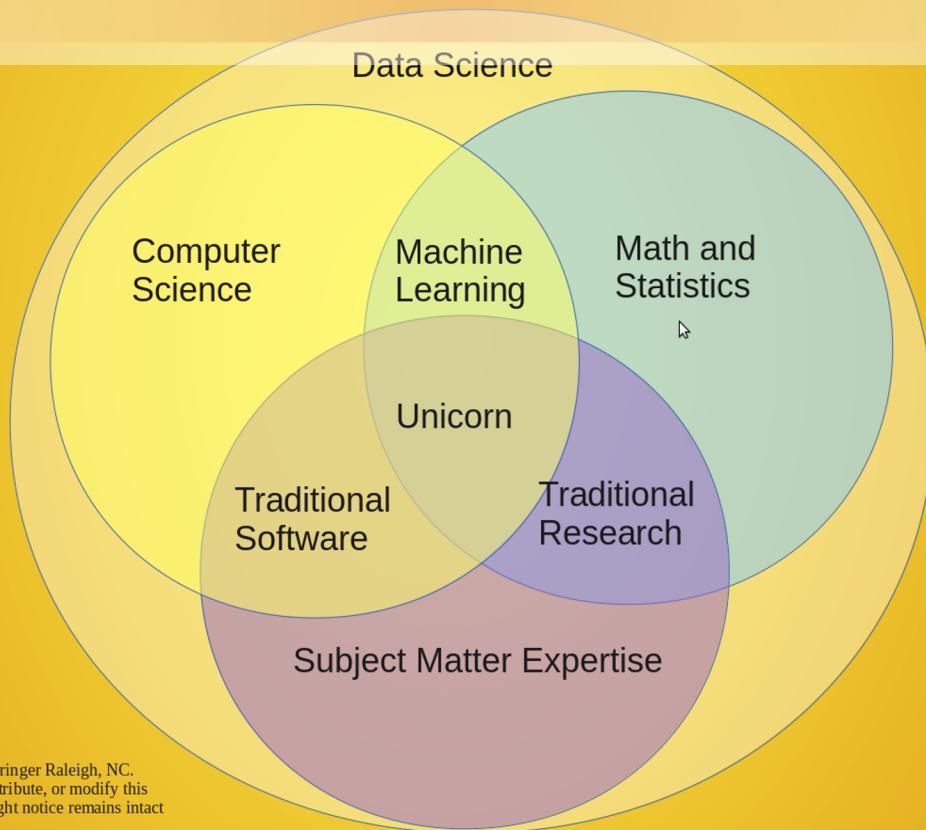
As organizations collect increasingly large and diverse data sets, the demand for skilled data scientists will continue to rise. In fact, it was dubbed “[The Sexiest Job of the 21st Century](#)” by HBR.

Unfortunately, the day-to-day reality of the role doesn’t quite match the romanticized version.

<https://hbr.org/2014/04/the-sexiest-job-of-the-21st-century-is-tedious-and-that-needs-to-change>

The skills of Data Scientist

Data Science Venn Diagram v2.0





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A Look at
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The Rise of Data Scientists

A cartoon illustration divided into two panels. The left panel shows a bank teller in a blue suit and tie, sitting behind a desk and speaking to a customer couple. A speech bubble from the teller says, "I'm sorry, but our skilled professionals using a highly scientific algorithm have determined your account must be frozen." The right panel shows a chaotic office environment where several people are running away from a large pile of papers labeled with transaction details like "PAYOUTS LAST", "PAYOUTS THIS", "PAYOUTS TODAY", and "PAYOUTS YESTERDAY". One person is shouting "FRAUD DETECTION SYSTEM!" while pointing at a computer screen. The overall theme is the contrast between traditional, rule-based fraud detection and modern, data-driven machine learning approaches.

The Impact

The image shows a large industrial complex, likely a cement or chemical plant, with numerous tall cylindrical storage tanks and intricate piping. The scene is captured during twilight or nighttime, with the industrial lights creating a warm glow against the cool blue of the sky. In the lower-left corner, there is a semi-transparent green rectangular box containing text related to industrial monitoring and maintenance.

A screenshot of the Amazon.com homepage. At the top, there's a search bar with the placeholder "What would you like to buy?". Below it, a large banner features the text "Amazon.com has new recommendations for you based on [REDACTED] you purchased or told us you like." To the right of this banner is a "Recommended for You" section with several movie posters, including "The Hobbit: Desolation of Smaug", "The Great Gatsby", and "The Hobbit: The Desolation of Smaug". Below this is another section titled "Other Movies You Might Enjoy" with more movie posters, such as "One Flew Over the Cuckoo's Nest", "The Godfather", "The Godfather: Part II", "The Godfather: Part III", "The Thin Red Line", and "The Last Picture Show". On the far left, there are vertical sidebar banners for "Amazon Prime", "Kindle", "Books", "Movies & TV", "Music", "Video Games", and "Software".



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You Don't Have to Be a Data Scientist to Fill This Must-Have Analytics Role

by Nicolaus Henke, Jordan Levine, and Paul McInerney

February 05, 2018

What Kind of Data Scientist Do You Need?

by Michael Li

February 01, 2016



What Data Scientists Really Do, According to 35 Data Scientists

by Anne Anderson

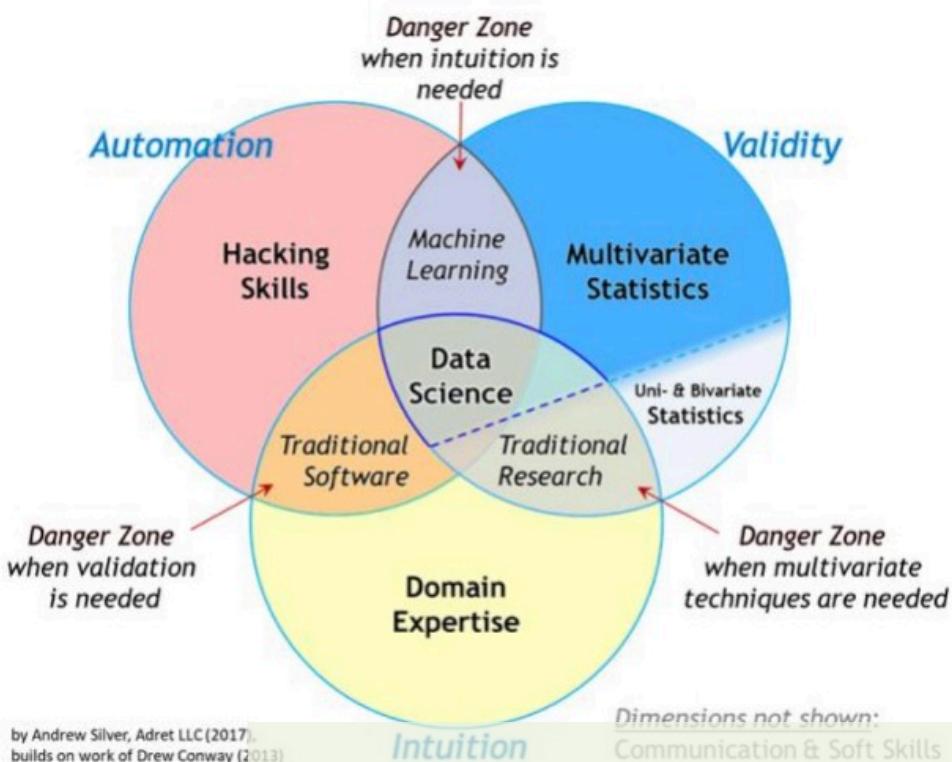
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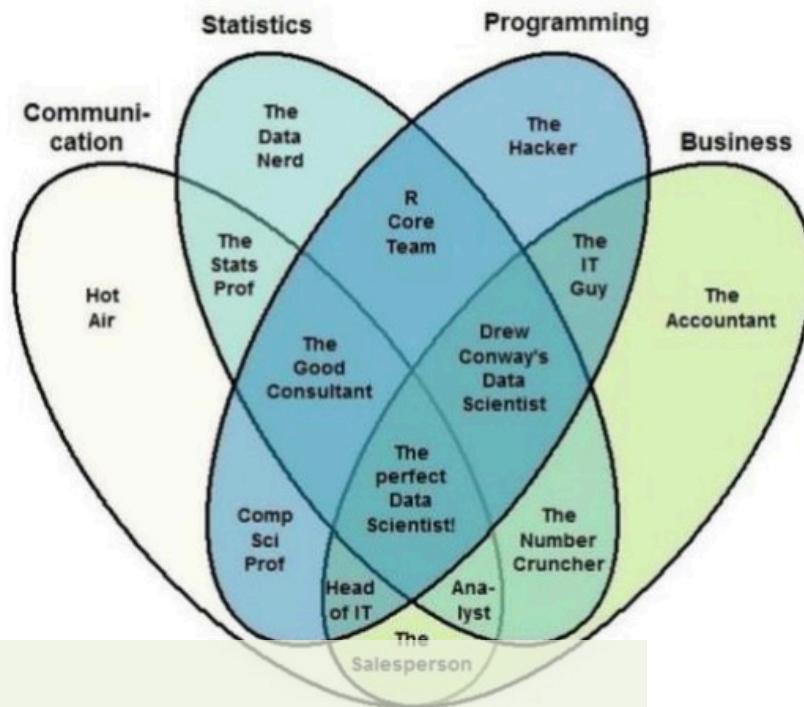
Do Your Data Scientists Know the 'Why' Behind Their Work?

by Thomas C. Redman

May 16, 2019

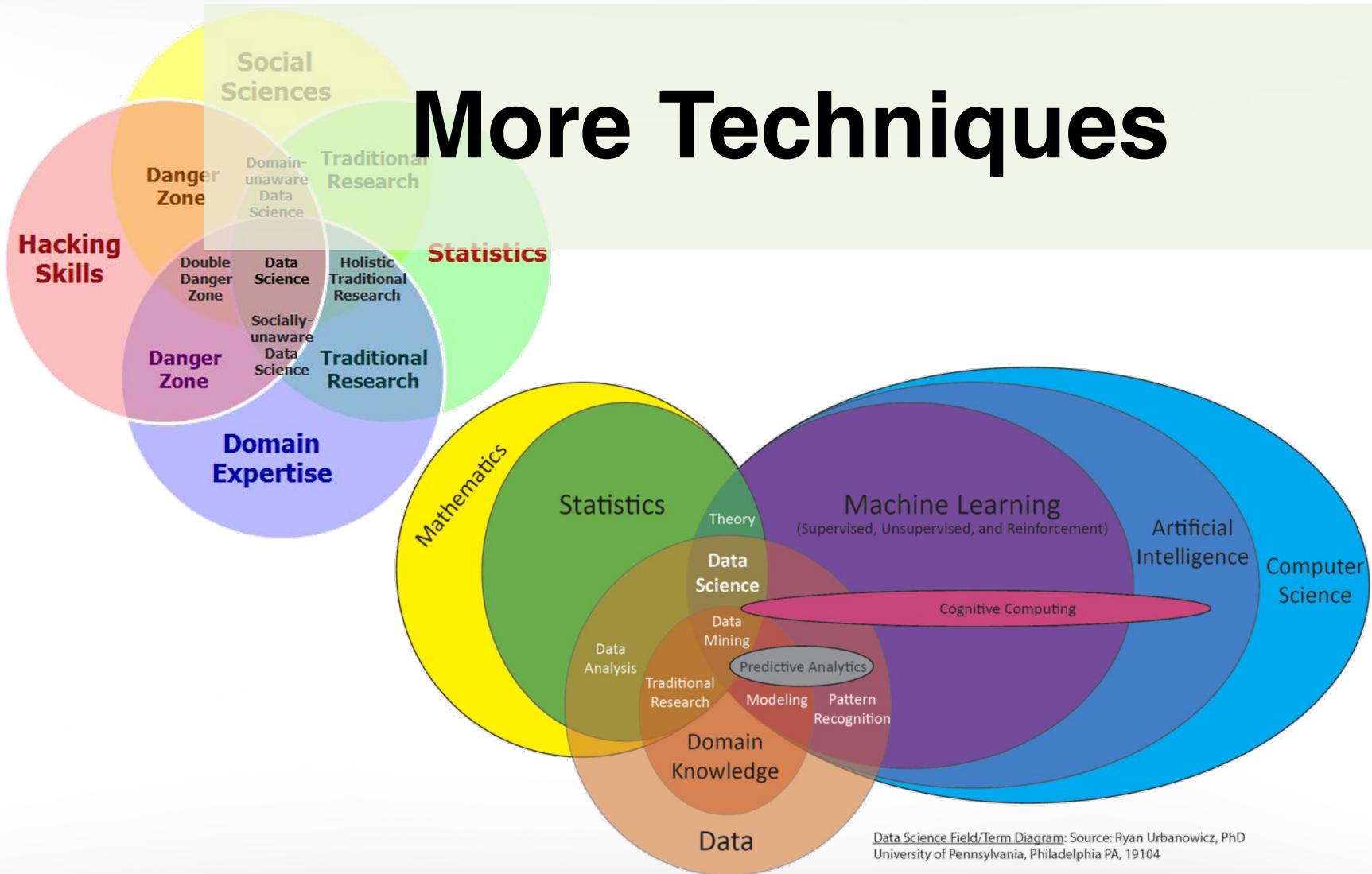


The Data Scientist Venn Diagram



More Changes

More Techniques



[Data Science Field/Term Diagram](#): Source: Ryan Urbanowicz, PhD
University of Pennsylvania, Philadelphia PA, 19104

TYPES of Data Scientists



The Vertical Experts

A **Vertical Expert** has lots of experience in a particular domain and is valuable for obvious back-knowledge from the get-go, but can find it difficult to think outside the box on standard problems or questions.



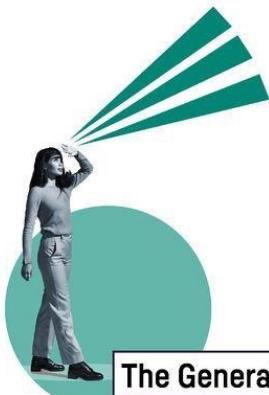
The Star DS Managers

A **Star DS Manager** concerns him or herself with overall team productivity, removing roadblocks, tooling, etc., hence is not really focused on the data science itself.



The Dabblers

A **Dabbler** doesn't do data science as a full-time role or primary responsibility, but as part of a job or function or in the context of the rest of the role (let's say 20-ish% of the time).



The Generalists

A **Generalist** knows a little something about everything and is a good fit for larger teams where responsibilities are always shifting, but also for a one-man show at a smaller company where versatility is essential.



The Legends

A **Legend** has been around since before data science was really a thing, so probably studied math extensively, is a great programmer, and has mastered several languages (including almost-forgotten ones, like C++).



The Statisticians

A **Statistician** is extremely literate in statistics and has a lot of experience in the area of data analysis, often well-versed in various statistical methods.

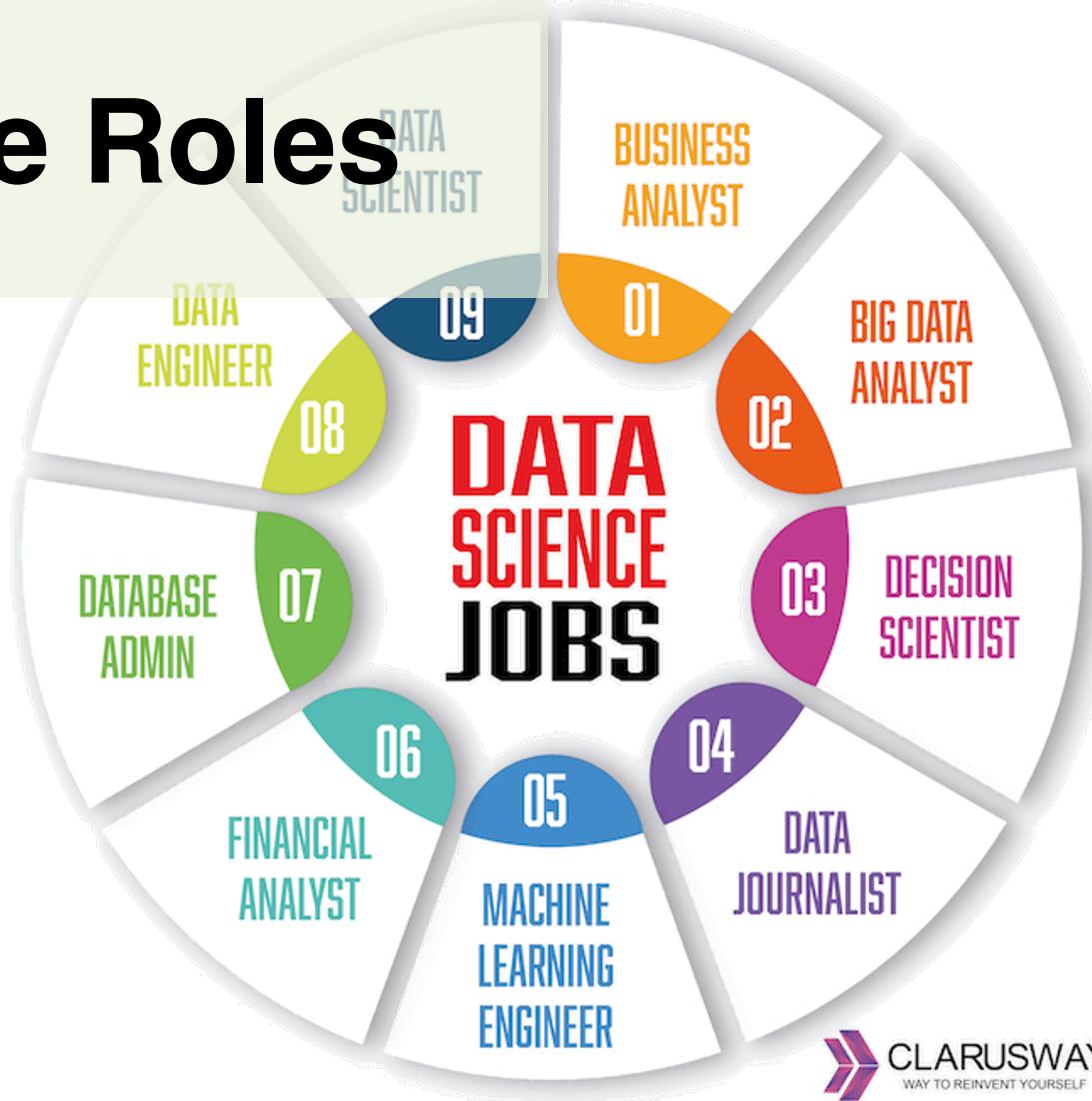


The ML Engineers

A **Machine Learning (or ML) Engineer** brings an understanding of model development, software architecture, and model deployment that can be essential for certain types of businesses and datasets.

More Types

More Roles





DATA
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Back to the Basic: The Data Science

How Data Science will Impact Future of Businesses?

With more than 6 billion (and counting) devices connected to the internet, approximately 2.5 million terabytes of data are generated every day. By the year 2020, millions of more new devices are expected to get connected, projecting around 30 million terabytes of data each day. This figure will definitely fascinate you.



HOW DATA SCIENCE WILL
IMPACT FUTURE OF BUSINESSES

Data science

From Wikipedia, the free encyclopedia

Not to be confused with [information science](#).

Data science is an [interdisciplinary](#) field that uses scientific methods, processes, algorithms and systems to extract [knowledge](#) and insights from noisy, structured and [unstructured data](#),^{[1][2]} and apply knowledge and actionable insights from data across a broad range of application domains. Data science is related to [data mining](#), [machine learning](#) and [big data](#).

Data science is a "concept to unify [statistics](#), [data analysis](#), [informatics](#), and their related methods" in order to "understand and analyze actual phenomena" with data.^[3] It uses techniques and theories drawn from many fields within the context of [mathematics](#), [statistics](#), [computer science](#), [information science](#), and [domain knowledge](#).^[4] However, data science is different from computer science and information science. Turing Award winner [Jim Gray](#) imagined data science as a "fourth paradigm" of science ([empirical](#), [theoretical](#), [computational](#), and now [data-driven](#)) and asserted that "everything about science is changing because of the impact of [information technology](#)" and the [data deluge](#).^{[5][6]}

A **data scientist** is someone who creates programming code and combines it with statistical knowledge to create insights from data.^[7]



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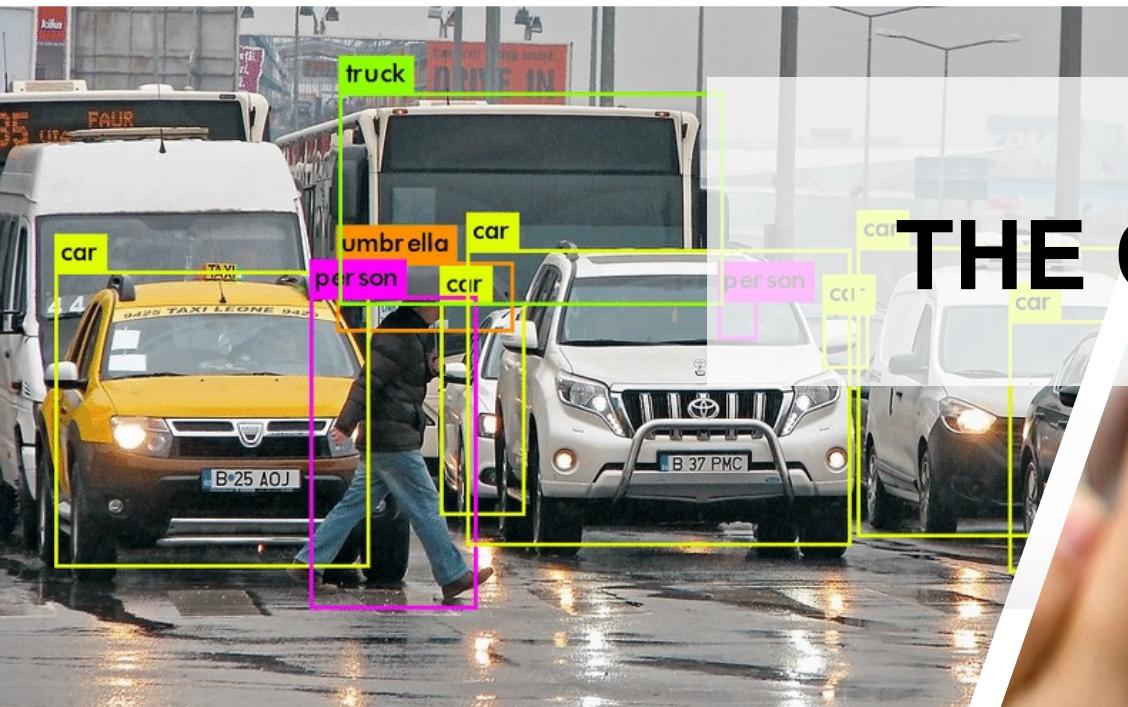
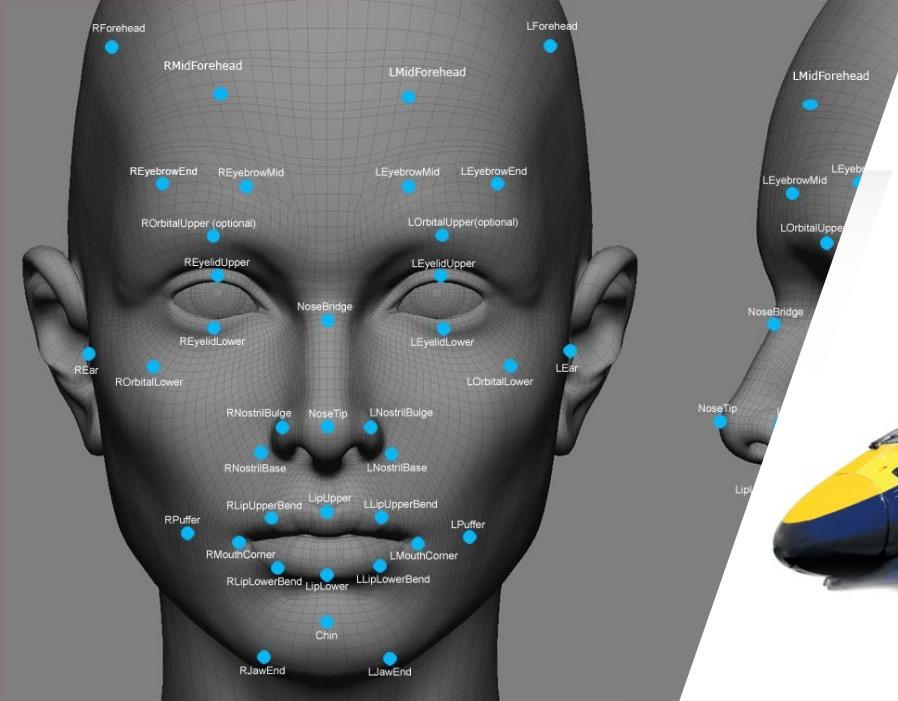


DATA + SCIENCE + BUSINESS IMPACT



DATA + SCIENCE + BUSINESS IMPACT





THE OPPUTUNITY



Question and Answer