





Intro to DATA SCIENCE



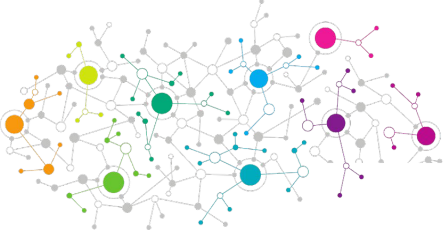
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Let's talk about DATA SCIENCE



what is DATA SCIENCE all about ?



Data science adalah suatu disiplin ilmu yang khusus mempelajari data, khususnya data kuantitatif (data numerik), baik yang terstruktur maupun tidak terstruktur. Berbagai subjek yang dibahas dalam data science meliputi semua proses data, mulai dari **pengumpulan data**, **analisis data**, **pengolahan data**, **manajemen data**, **kearsipan**, **pengelompokan data**, **penyajian data**, **distribusi data**, hingga cara mengubah data menjadi **kesatuan informasi** yang dapat dipahami semua orang.

“A data scientist is someone who is better at statistics than any software engineer and better at software engineering than any statistician.”

DATA ANALYST “data detective”

MINDSET

Pecandu data Intuitif

PERAN

Mengumpulkan, memproses dan melakukan analisis data statistik



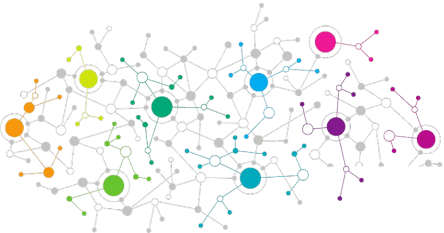
DATA ENGINEER “software enginer by trade”

MINDSET

???

PERAN

Mengembangkan, membangun, menguji dan memelihara arsitektur (seperti database dan sistem pemrosesan skala besar)





Itsn't just a buzz, a trend, or a fad



It's Revolutions that's changing the world with it's real impact

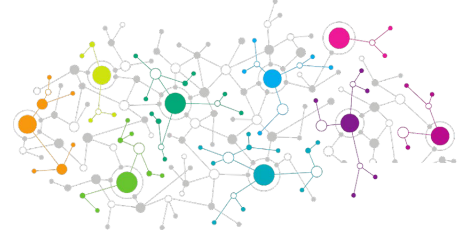


Why DATA SCIENCE ?



I keep saying that the sexy job in the next 10 years will be statisticians. And i'm not kidding

-Google's Chief Economist



Data scientist the 1 #JOB in America for 2016 AND 2017 !

-GlassDoor

Data Scientist Salaries

2,951 Salaries Updated Apr 4, 2018

About This Data [?](#)

All Industries



All Company Sizes



All Years of Experience



Average Base Pay

\$120,931 /yr



Additional Cash Compensation [?](#)

Average **\$11,772**

Range **\$4,006 - \$27,409**

How much does a Data Scientist make?

The national average salary for a Data Scientist is \$120,931 in United States. Filter by location to see Data Scientist salaries in your area. Salary estimates are based on 2,951 salaries submitted anonymously to Glassdoor by Data Scientist employees. [Less](#)

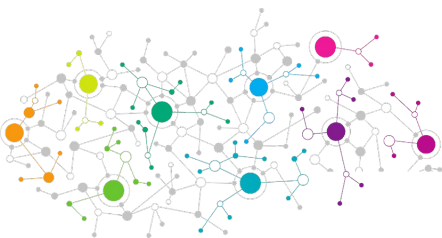
Salaries for Related Job Titles

Data Analyst \$65K

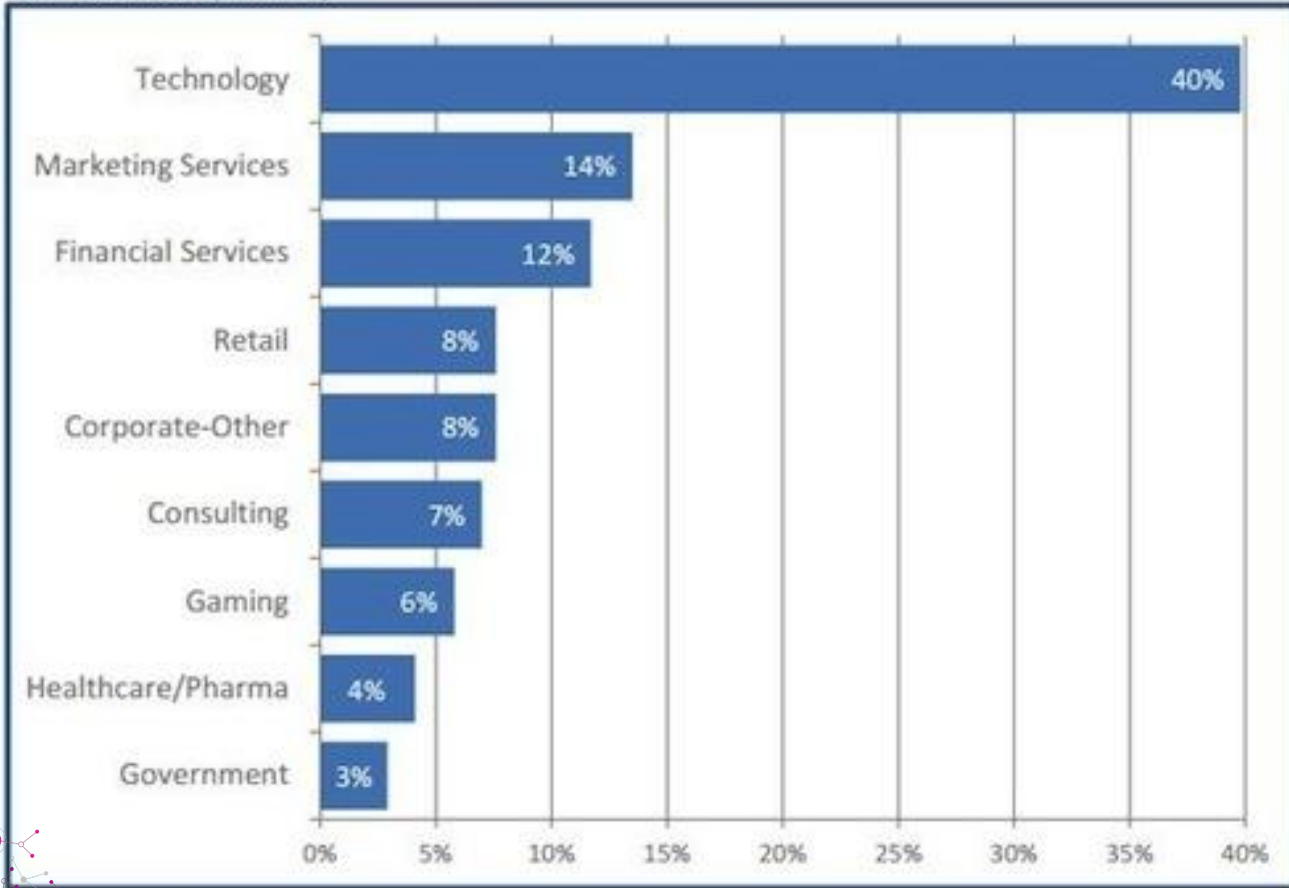
Data Scientist Intern \$89K

Quantitative Analyst \$94K

Senior Data Scientist \$141K



Data Scientists by Industry





Companies Hiring Data Scientist

SEARCH ENGINE AND DIGITAL MARKETING

Google

YAHOO!

bing

Ask
.com

SOSIAL NETWORK

facebook

twitter

LinkedIn

tumblr.

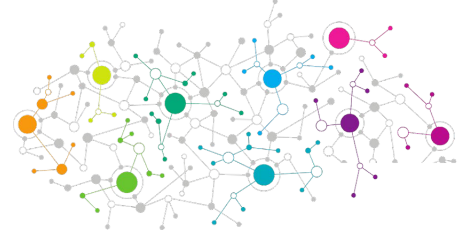
FINANCE AND E-COMMERCE

amazon

PayPal

ebay

GE Capital



How about WOMAN ?

Tetiana Ivanova



A mathematician turned data scientist currently working with NanoTechGalaxy on developing machine learning algorithms for medical image processing.



Hilary Mason



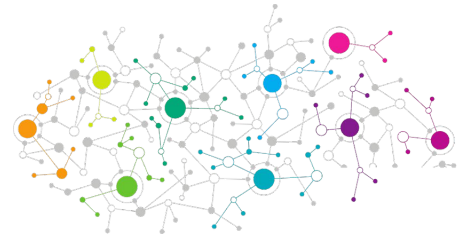
A VP of Research at Cloudera. She is also the Founder of Fast Forward Labs, a machine intelligence research company, and was the Data Scientist in Residence at Accel and the Chief Scientist at bitly. She loves data and cheeseburgers.



Fatimah Al-Ismaïl



It makes me believe in myself more and what I could do and the difference I can make in the world when I see all these women making a difference



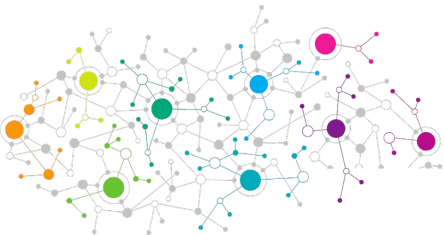


What DATA SCIENTIST do ?



Question - Wrangle - Explore - Draw Conclusions - Communicate

Examples !!!



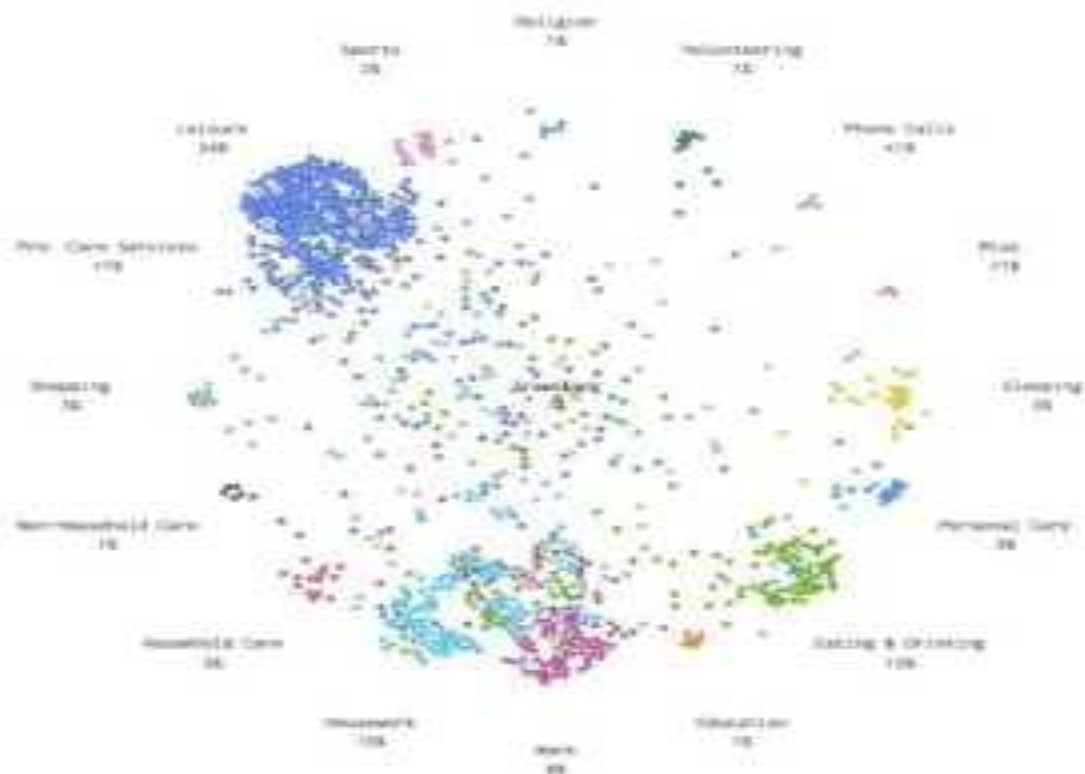
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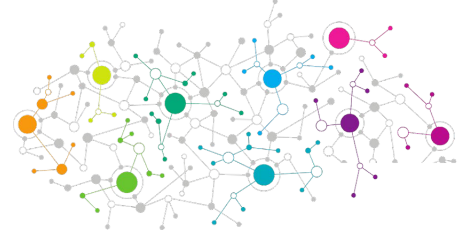
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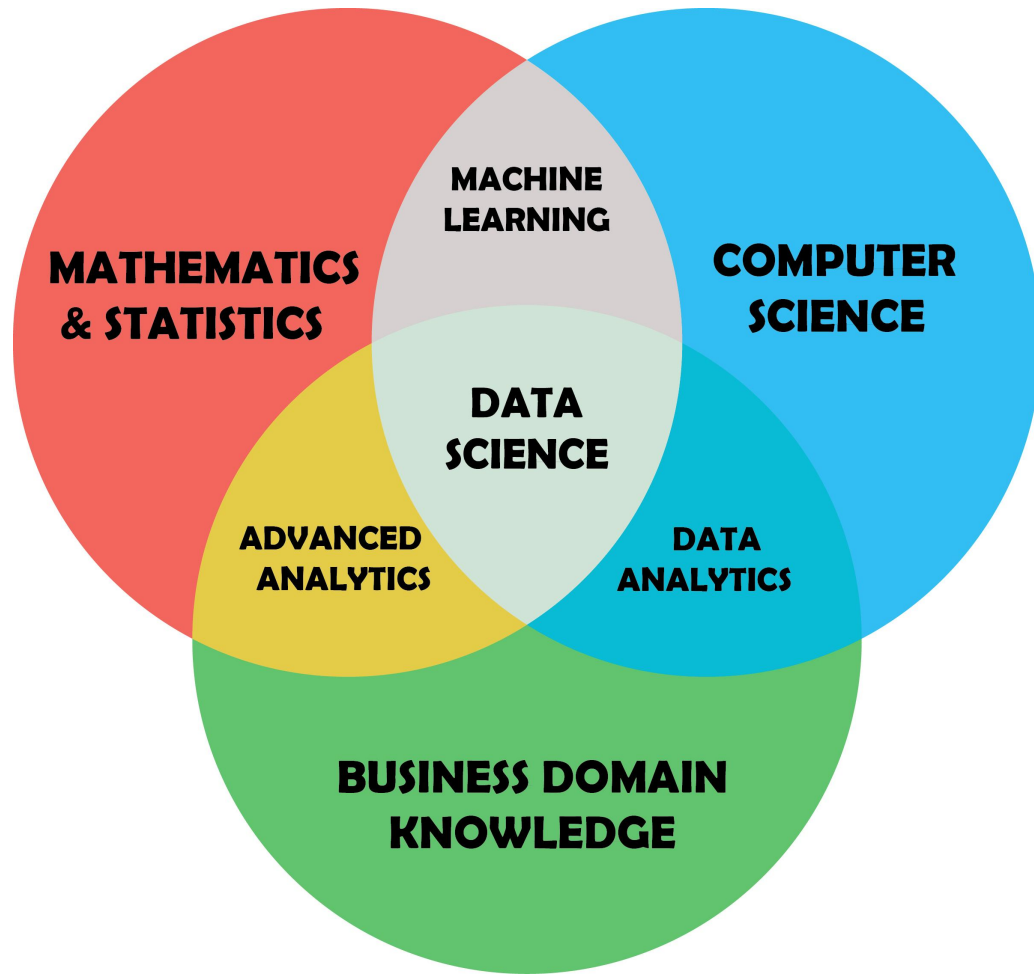
SHORT

This is a simulation of 1,000 people's average day. It's based on BVA data from the American Time Use Survey. Each one was generated by the ATUS Project, Bureau.





How To Be ?



I'll get it, how about you ?

Let's Wrangling Data