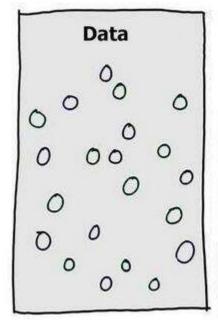


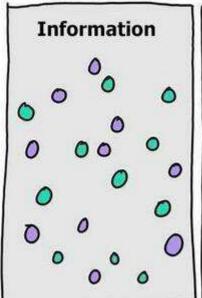


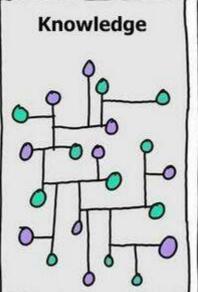
Sains Data

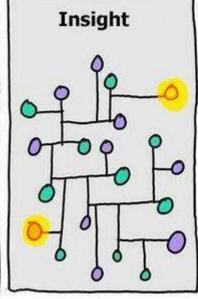
- Perusahaan: "Gunakan dan olah data apapun untuk meningkatkan penjualan produk."
- Saintis data: "Diolah seperti apa? Dengan tool apa?"
- Perusahaan: "TERSERAH!"

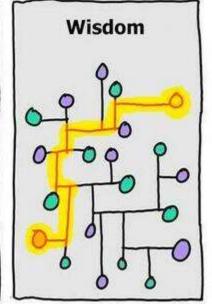




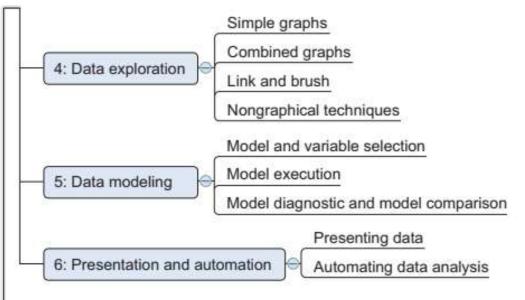








Data science process Define research goal 1: Setting the research goal Create project charter Data retrieval Internal data e Data ownership 2: Retrieving data External data Errors from data entry Physically impossible values Missing values Data cleansing 6 Outliers Spaces, typos, ... Errors against codebook Aggregating data 3: Data preparation Extrapolating data Data transformation 6 Derived measures Creating dummies Reducing number of variables Merging/joining data sets Combining data @ Set operators Creating views







3. Data Preparation

- "Membersihkan" data dari error
- Mengubah format data "mentah" menjadi siap untuk digunakan
- Sebagian besar waktu (sekitar 80%) digunakan pada tahap ini
- "Garbage in equals garbage out."

4. Data Exploration

- Mendapatkan pemahaman terhadap data
- Dilakukan secara manual dengan bantuan tool
- Mencari pola, korelasi, dan perhitungan-perhitungan statistik lainnya
- Membuat grafik data

5. Data Modeling

- Mengaplikasikan algoritma-algoritma machine learning untuk mendapatkan informasi penting
- Tidak harus menggunakan algoritma yang kompleks
- Tujuan sebenarnya adalah menghasilkan impact sebesar mungkin

6. Data Presentation and Automation

- Menyajikan hasil sehingga dapat dipahami semua stakeholder: manajemen, investor, UX designer, dll.
- Mengotomasi proses analisis, jika diperlukan

Proses Sains Data

- Langkah-langkah tadi tidak bersifat linier dan tidak mengikat
- Namun penting untuk digunakan untuk menghasilkan proyek yang sukses
- Membantu mendefinisikan rencana dan produk/deliverables yang jelas

(3)-1-(B)

LIFECYCLE OF A DATA SCIENCE PROJECT

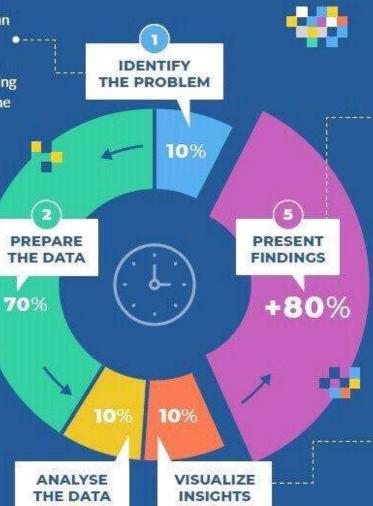


Ever heard the phrase "Here's some data, can you find some insights?" Right? Too often stakeholders approach Data Scientists with vague or even undefined goals. Understanding the end goal is very important and sets up the rest of the project for success.

By far, everybody's least favourite stage, but perhaps the most important one. Data can come from many sources, be in the wrong format, have anomalies and a myriad of other problems. A single mistake in this stage can render the rest of the analysis useless.

—

Creating models, performing data mining, running text analytics, setting up simulations - the list goes on! This is the most fun and exciting part and if the previous stages have been done correctly, analyzing the data and deriving insights will feel like a breeze.



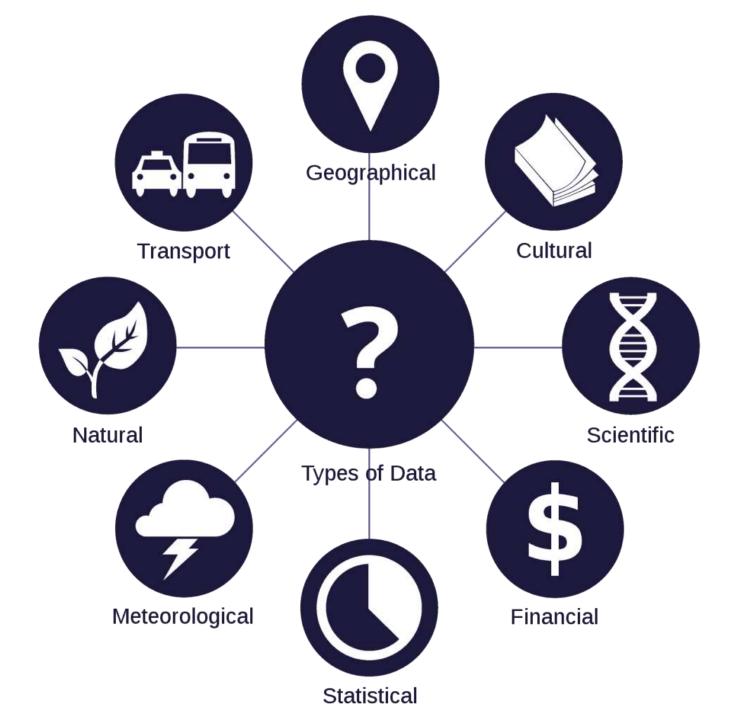
We've reached 100% the project is over! Actually, not yet. Presenting findings is a whole separate "Bonus" stage. You need to not only convey the insights in your audience's language but also get buy-in from them to take action based on those insights. This is an art in its own right.

Visualizing comes hand-in-hand with analyzing. This is a very powerful technique as seeing the data in various forms and shapes can help uncover insights that are otherwise not evident. Also some projects such as BI dashboards don't require much analysis but rely heavily on visualization instead.

Modul Pembelajaran

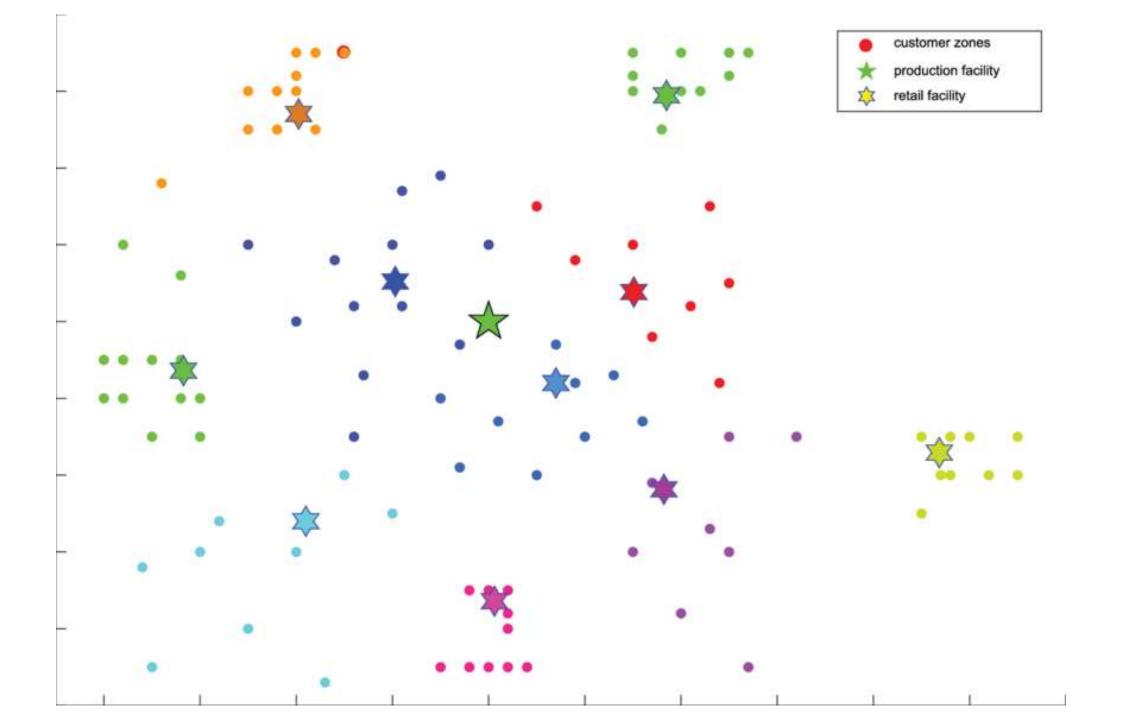
Belajar dengan materi pembelajaran yang menyeluruh dalam 3 bulan

Data Science Methodology ✓ API Introduction to Data and Database Statistics SQL Data Visualization Versioning/Version Control Data Preprocessing for Machine Learning Introduction to Python Programming Introduction to Machine Learning and Regression Python Programming Machine Learning - Supervised & Introduction to Numpy Unsupervised Introduction to Basic Dataframe (Pandas) Advance Machine Learning Topics ✓ Dataset dan Modelling Project Business Intelligence Analytical and Critical Thinking Mentor Experience Sharing Dataframe Communication and Presentation Skills Career Coaching and Mentoring



Contoh: Perusahaan Retail

- Suatu perusahaan retail berencana membuka cabang toko baru
- Di mana lokasi yang terbaik?
- Saintis data dapat melihat data lokasi pembeli
- Atau dikombinasikan dengan data demografi dan gaji pembeli
- Kemudian saintis data mempresentasikan rekomendasinya







Kategori

Cari vacum cleaner













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Sikat





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Cashback



Tang Potong Dorong Pemotong Keramik Kaca Rp52.000





Alat Pemotong Kaca / Glass Cutter / Pisau Rp70.000







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O Tangerang Selatan





Solder listrik 100w 220 vac gagang kayu- mata Rp 60.000







GK9 kit toner transfer pcb dengan gk9 formula Rp 75.000



















Contoh: Customer Churn

- Suatu perusahaan TV berlangganan tentu ingin mempertahankan pelanggannya
- Berapakah persentase kemungkinan pelanggan berpindah ke produk kompetitor?
- Ini dikenal dengan customer churn



- Mencegah terjadinya transaksi ilegal
- Digunakan pada banyak industri, seperti perbankan, asuransi, dan pinjaman online
- Kendala yang sering terjadi: class imbalance



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Private traits and attributes are predictable from digital records of human behavior

Michal Kosinski, David Stillwell, and Thore Graepel

PNAS April 9, 2013 110 (15) 5802-5805; https://doi.org/10.1073/pnas.1218772110

Edited by Kenneth Wachter, University of California, Berkeley, CA, and approved February 12, 2013 (received for review October 29, 2012)

Article

Figures & SI

Info & Metrics



Abstract

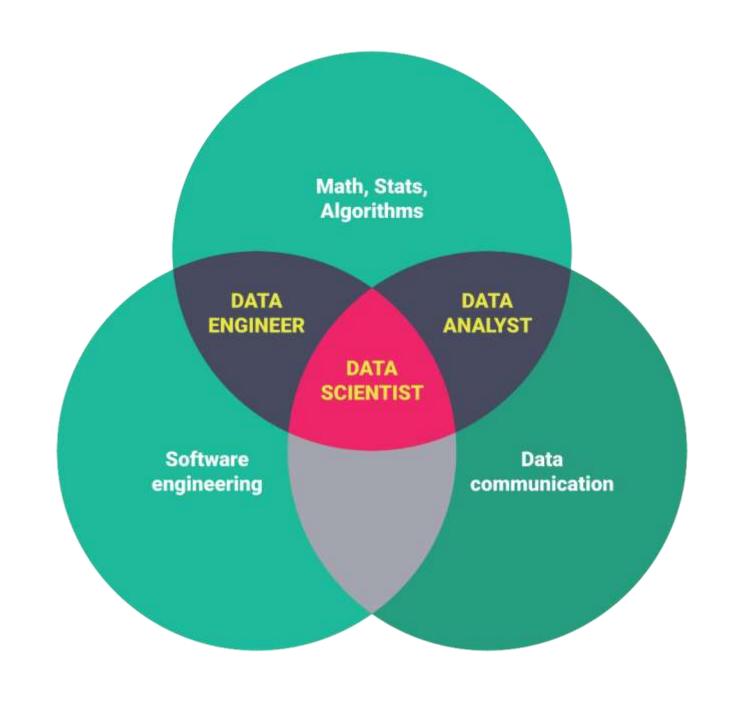
We show that easily accessible digital records of behavior, Facebook Likes, can be used to automatically and accurately predict a range of highly sensitive personal attributes including: sexual orientation, ethnicity, religious and political views, personality traits, intelligence, happiness, use of addictive substances, parental separation, age, and gender. The analysis presented is based on a dataset of over 58,000 volunteers who provided their Facebook Likes, detailed demographic profiles, and the results of several psychometric tests. The proposed model uses dimensionality reduction for preprocessing the Likes data, which are then entered into logistic/linear regression to predict individual psychodemographic profiles from Likes. The model correctly discriminates between homosexual and heterosexual men in 88% of cases, African Americans and Caucasian Americans in 95% of cases, and between Democrat and Republican in 85% of cases. For the personality trait "Openness," prediction accuracy is close to the test–retest accuracy of a standard personality test. We give examples of associations between attributes and Likes and discuss implications for online personalization and privacy.





Skills

- Bisa berasal dari beragam latar belakang ilmu
- Structured query language (SQL)
- Big data
- Pemrograman: Python atau R
- Matematika dan statistika
- Machine learning
- Domain knowledge
- Version control: Git



Skills

