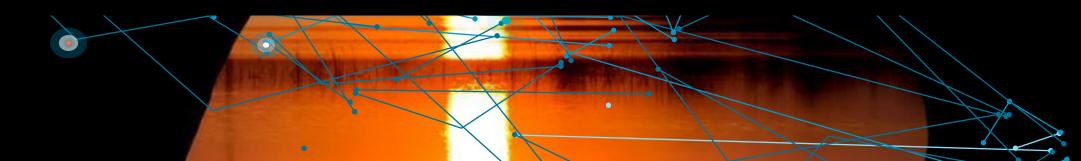
# teradata

#### The Future of Data, Analytics and Machine Learning





#### **Christopher Jackson**

Solution Engineering Manager, South Asia & Pacific

christopher.jackson@teradata.com linkedin.com/in/cjusa



• First Job: White House Complex -

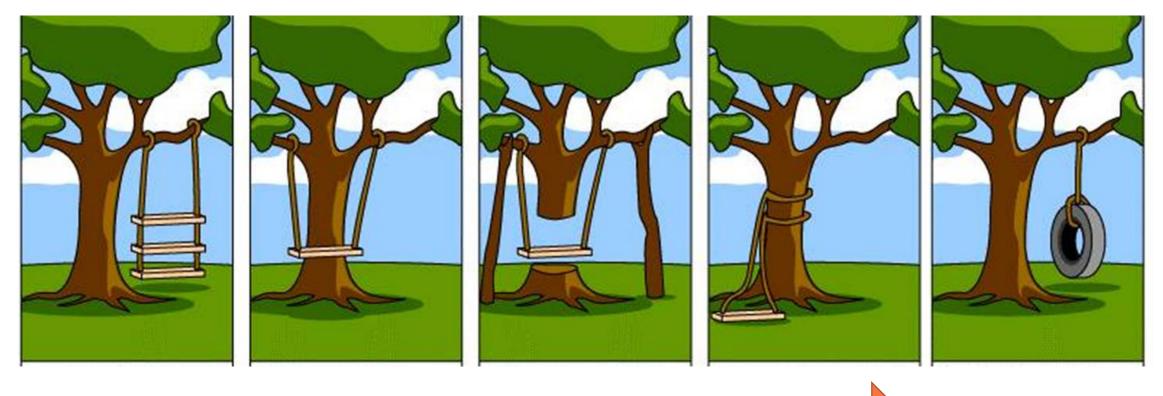
Office of Management & Budget, Ronald Reagan White House (1984)

- Craziest Job: Wrote Video Games
- More than 35 years of data and analytics experience in finance, banking, transportation, construction, manufacturing, and
- 5 Years at Teradata (mostly in Singapore)
- Now leading the pre-sales team for Teradata in South Asia & Pacific
- Currently based in Jakarta Indonesia



#### What does Pre-Sales Engineering do?

Δ







The Future of Data, Analytics & Machine Learning



Teradata's vision for managing the continuous disruption with a **sentient enterprise** and our **Vantage products** 



How analytics and data science can be used to solve real-world problems at-scale in enterprises 3

What free learning resources Teradata makes available to students and professors

#### Agenda

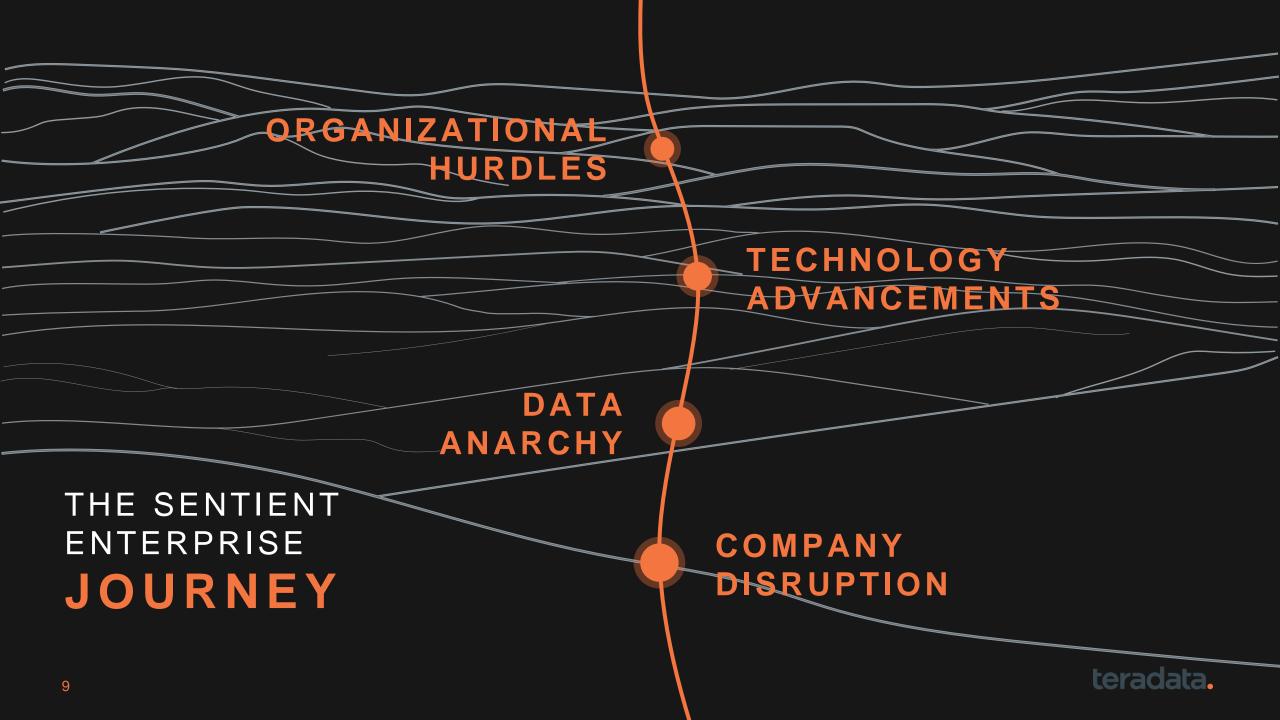
- The Sentient Enterprise Our Vision for Disruptive Analytics at Scale
- 3 Customer Success Stories SwedBank, AirFrance-KLM, & BWM Group
- Role of Analytics in the Modern Enterprise
- Teradata Vantage & Roadmap
- A Day in the Life of a Data Scientist
- **Two More Customer Successes** General Motors & Larry H. Miller Enterprises (Utah Jazz Professional Basketball Team)
- Teradata University Network Free Education Resources including Competitions and Student Events

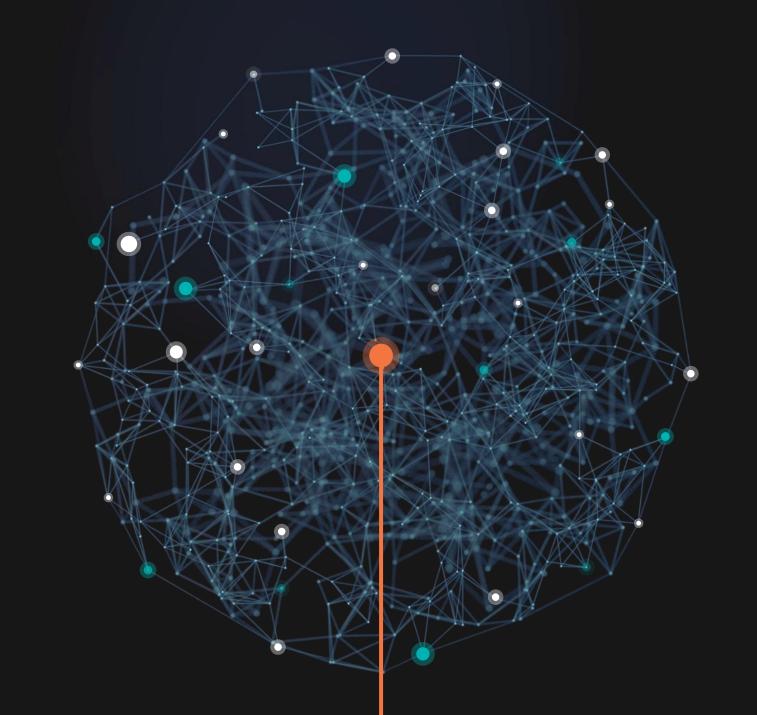
teradata

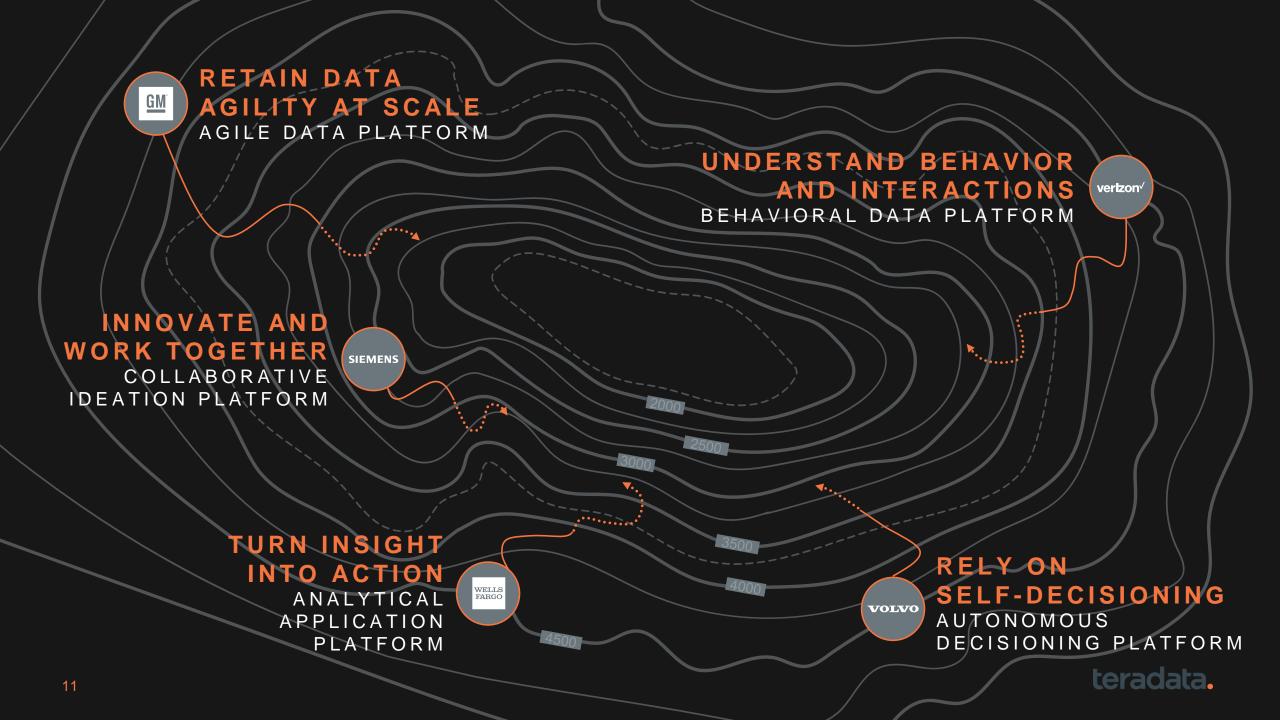
6 ©2018 Teradata

### THE SENTIENT ENTERPRISE ANALYTIC INNOVATION FOR THE FUTURE



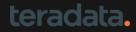








Use patterns and context in human and machine behavior to predict performance and inform new strategies.



#### BEHAVIORAL DATA PLATFORM

# ASK YOURSELF

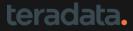
HOW can you predict what customers are likely to do in the future and determine what your company's next logical step?

HOW AND WHERE do you capture and store all of your machine and telemetry data?

WHAT changes would be required to your sales and marketing efforts if you understood non-buying behavior? **HOW** do you know what people are saying about your company, products, and brand?

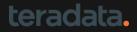
**HOW** might you use data to make the most of every customer touch point?

**HOW** would you use a wide variety of rich behavioral data—both human and machine related—to better understand problems and spot opportunities?



# EPISES ONING

Use algorithms to make independent decisions so the enterprise can grow and operate at scale.



## STAY FOCUSED ON AGGULTY

# REPEATABLITY



#### teradata.

#### **3 Customer Success Stories**

Companies have challenges, problems, and questions.

Teradata has the answer.

#### **BMW Group's Answer**

# Barts

**Every point in a supply chain** produces data, adding up to massive volumes of valuable information that can be used to understand the entire logistical and supply chain system. **Teradata Vantage integrates** desperate data from all available sources.

#### SWEDBANK'S ANSWER:



## Digital customer interactions per

year

**Stitching together 1.7B** digital customer interactions per year to illuminate the customer journey, Swedbank, the leading digital bank in Scandinavia, delivers on its mission to enable people, businesses, and society to grow.

#### **AIR FRANCE-KLM GROUP'S ANSWER: Smoothly connected Air France-KLM Group** relies on Teradata Vantage passengers to identify promotion and RERANCE pricing opportunities,

manage churn, and optimize web and call center experiences The Role of Advanced Analytics in the Modern Enterprise

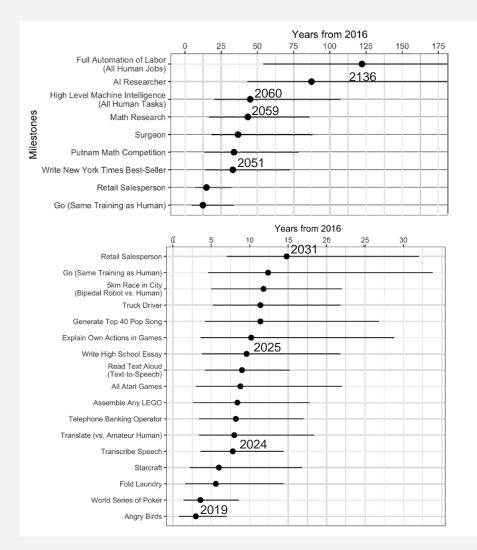
#### When Will AI Exceed Human Performance? Evidence from AI Experts

Katja Grace<sup>1,2</sup>, John Salvatier<sup>2</sup>, Allan Dafoe<sup>1,3</sup>, Baobao Zhang<sup>3</sup>, and Owain Evans<sup>1</sup>

<sup>1</sup>Future of Humanity Institute, Oxford University
 <sup>2</sup>AI Impacts
 <sup>3</sup>Department of Political Science, Yale University

#### Abstract

Advances in artificial intelligence (AI) will transform modern life by reshaping transportation, health, science, finance, and the military [1, 2, 3]. To adapt public policy, we need to better anticipate these advances [4, 5]. Here we report the results from a large survey of machine learning researchers on their beliefs about progress in AI. Researchers predict AI will outperform humans in many activities in the next ten years, such as translating languages (by 2024), writing high-school essays (by 2026), driving a truck (by 2027), working in retail (by 2031), writing a bestselling book (by 2049), and working as a surgeon (by 2053). Researchers believe there is a 50% chance of AI outperforming humans in all tasks in 45 years and of automating all human jobs in 120 years, with Asian respondents expecting these dates much sooner than North Americans. These results will inform discussion amongst researchers and policymakers about anticipating and managing trends in AI.



N = 352 respondents / 1634 contacted

#### Computer automation is coming in your lifetime!

#### **Journey in Analytics**

**Descriptive Analytics** Understand past events

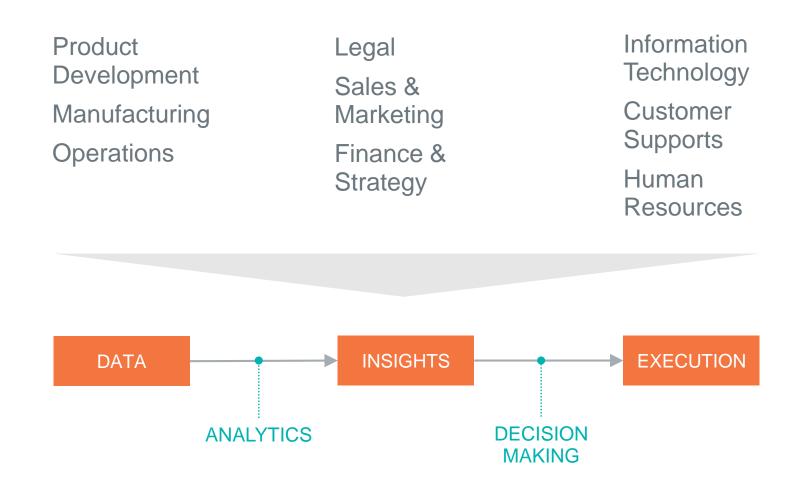
> Predictive Analytics Identify best option

**Prescriptive Analytics** Automate business decision



0

#### The Role of Machine Learning Systems in the Enterprise



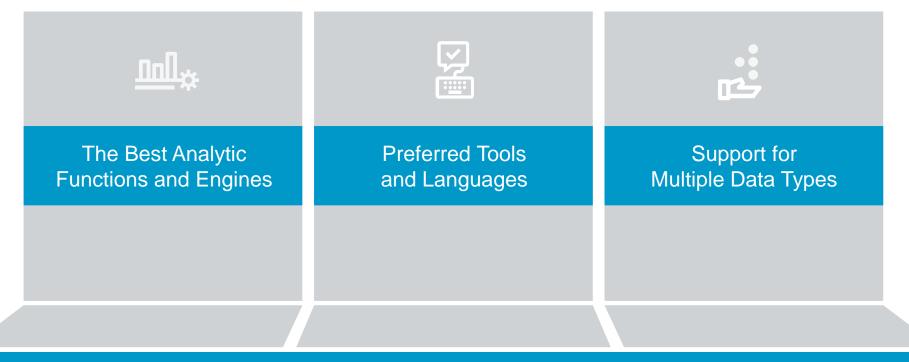
#### Teradata Vantage is Uniquely Positioned for Machine Learning Systems



Source: https://papers.nips.cc/paper/5656-hidden-technical-debt-in-machine-learning-systems.pdf

#### 27 © 2019 Teradata

#### **The Solution: Teradata Vantage**



#### TERADATA VANTAGE



#### Teradata Vantage

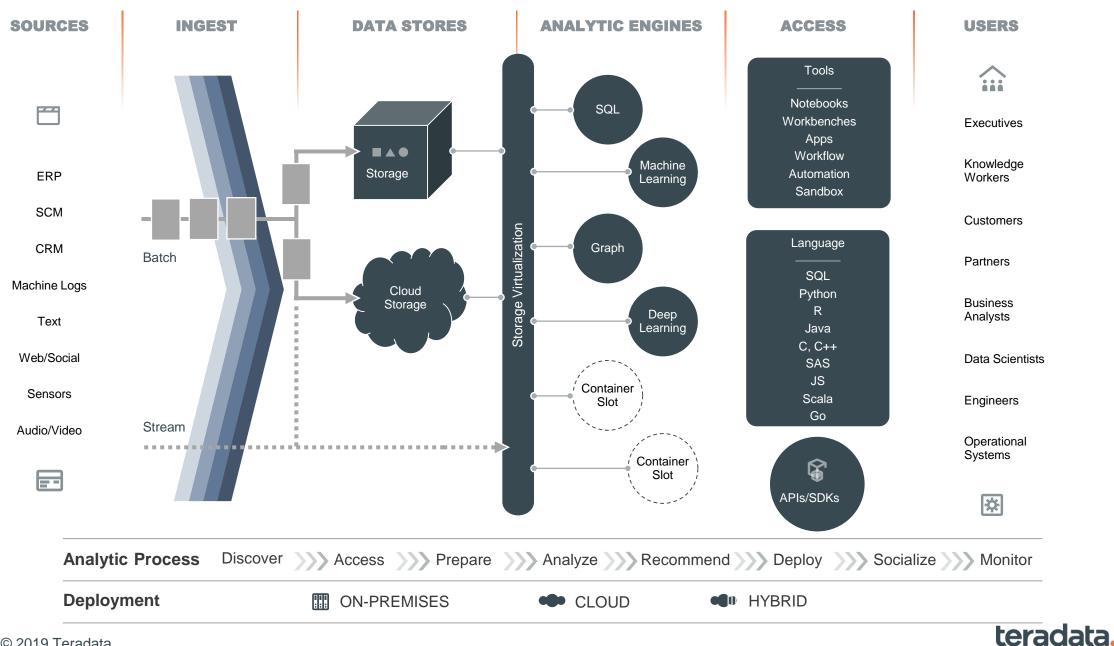
The New Approach a New World of Data Demands

#### **Benefits of Teradata Vantage**

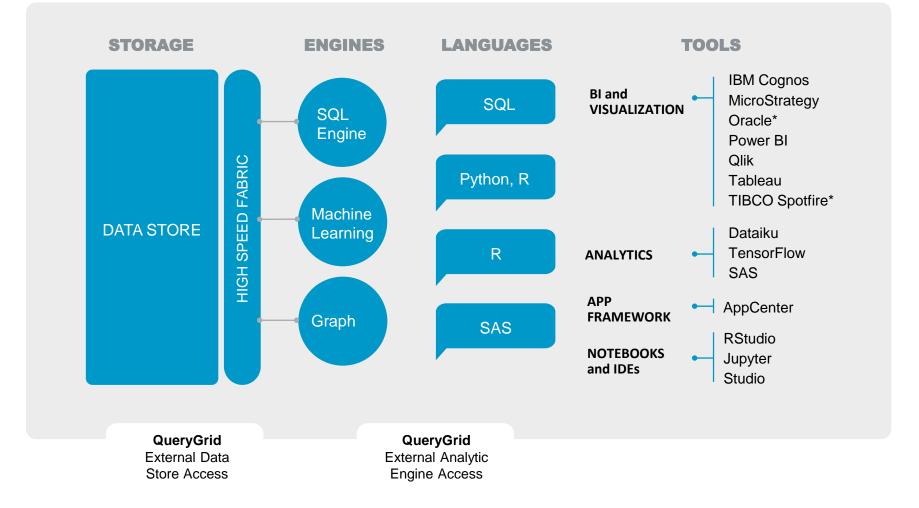




#### ANALYTICAL ECOSYSTEM

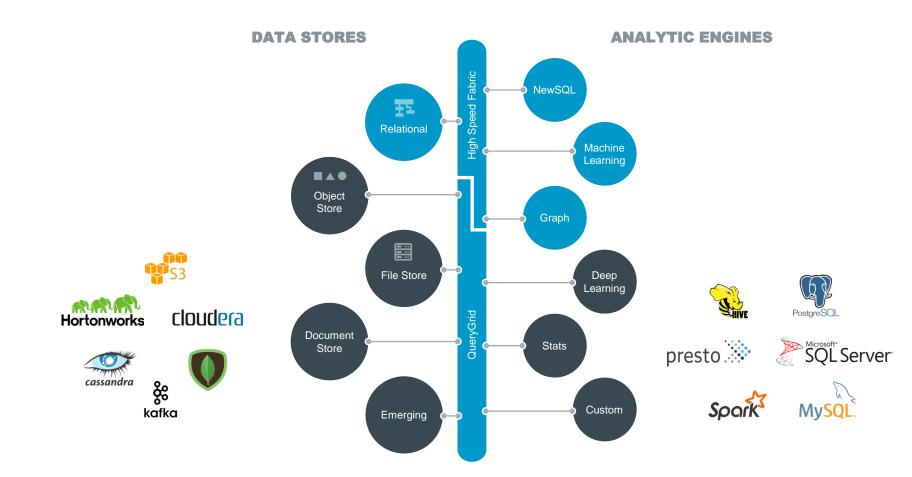


#### **Teradata Vantage (2019)**



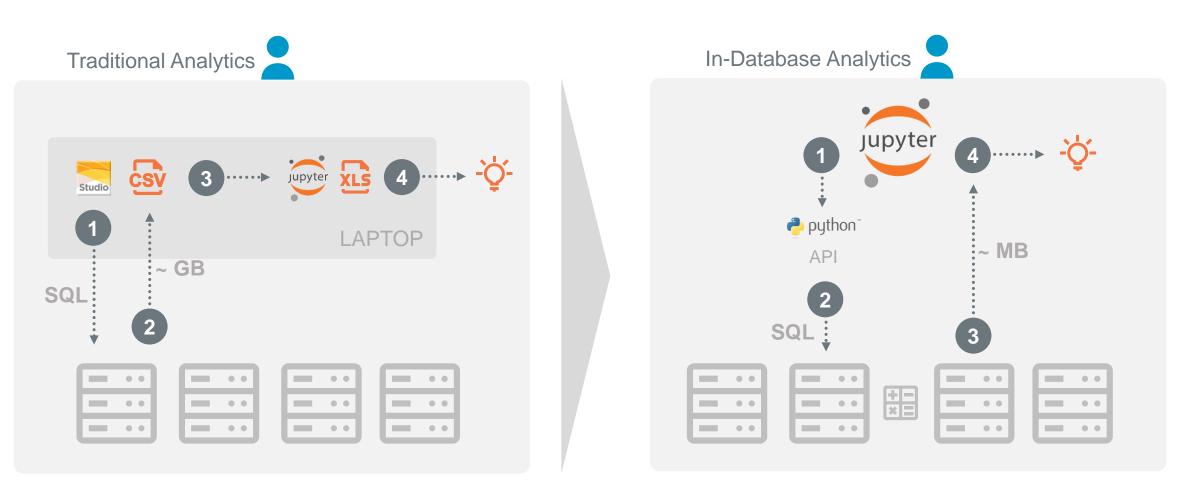


#### **Open Ecosystem Connectivity with QueryGrid™**



- Minimize data movement and duplication
- Process data
   where it resides
- Scalable data transfer with push-down processing

#### Vantage—the Foundation for Enterprise Scale and Performance Through In-Database Advanced Analytics





#### **In-Database Analytics Power**

#### Local R Script 240 minutes

#### Local R script (pseudo-code)

library(dplyr)

library(dbplyr)

```
con <- DBI::dbConnect(odbc::odbc(), Driver = "Teradata",
DBCName=host, UID=uid, PWD=pwd, database=dbs)
```

my\_dataframe <- tbl(con, "my\_table")

```
my_data <- my_dataframe %>% select(y,x1,x2,x3)
```

```
results <- glm(y \sim x1 + x2 + x3, data=my_data)
```

#### In-Database R Script



#### In-Database R Script (pseudo-code)

SELECT \* FROM SCRIPT ( ON (SELECT Y, X1, X2, X3 FROM my\_table) PARTITION BY 1 SCRIPT\_COMMAND(' R CMD BATCH ./mydb/analysis.R') DELIMITER(',') ) as tbl;

#### **In-Database Analytics Power**

**6** HOURS Download users data

**~10** MIN Local Churn Analysis

#### 6 HOURS

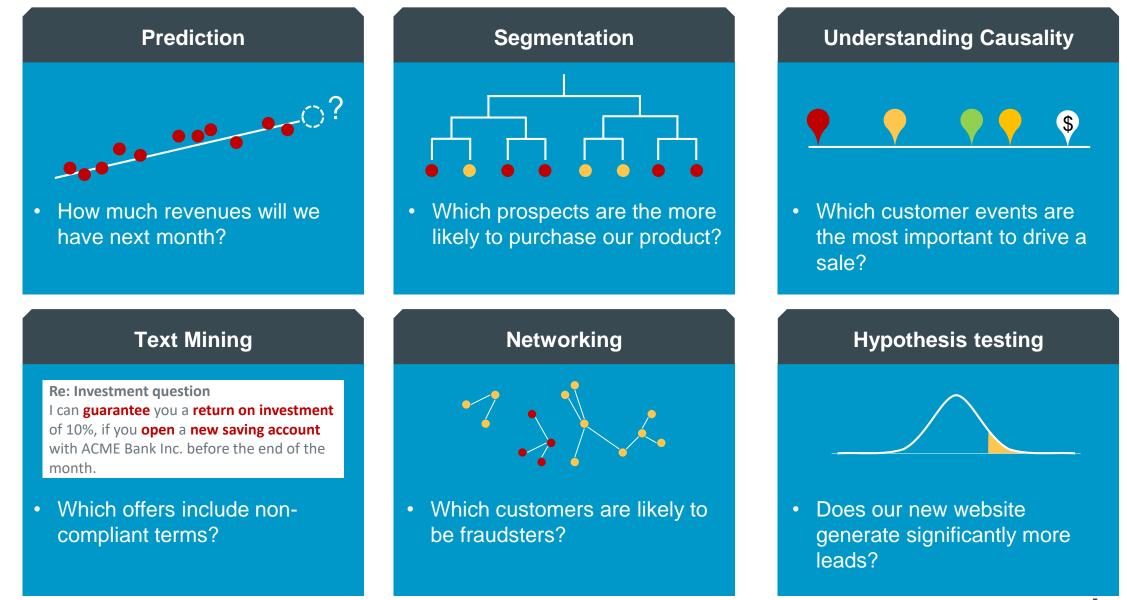
Upload churn prediction by user

#### ~4 MIN

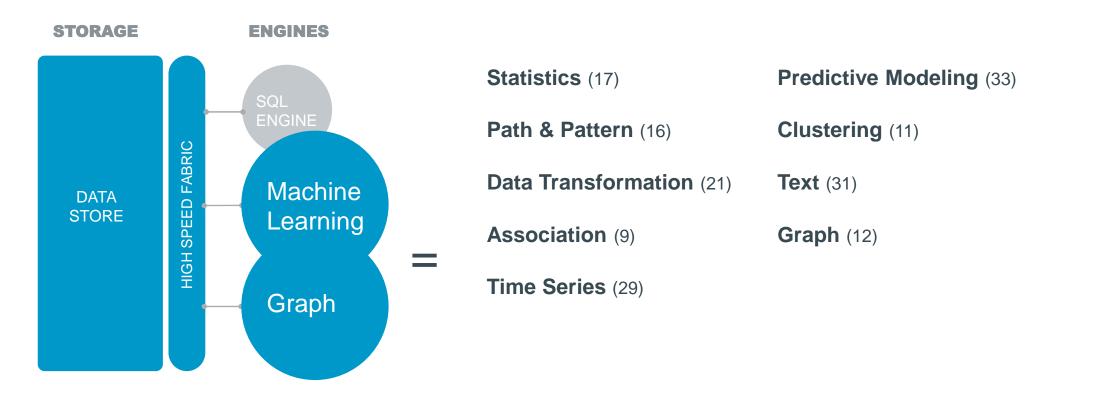
Churn Analysis in-database

- Faster results
- Iterate more often
- Fresher business insights
- Fail faster
- Better governance (monitor, audit, backup, ...)

### **Discover the Possibilities with the Teradata Vantage 1.0**

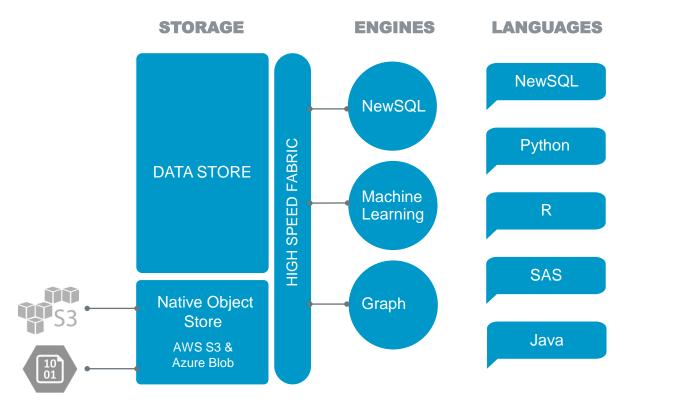


## **Machine Learning and Graph Engine Functions**



# Future Roadmap of Teradata Vantage

## **Teradata Vantage Native Object Store Access**

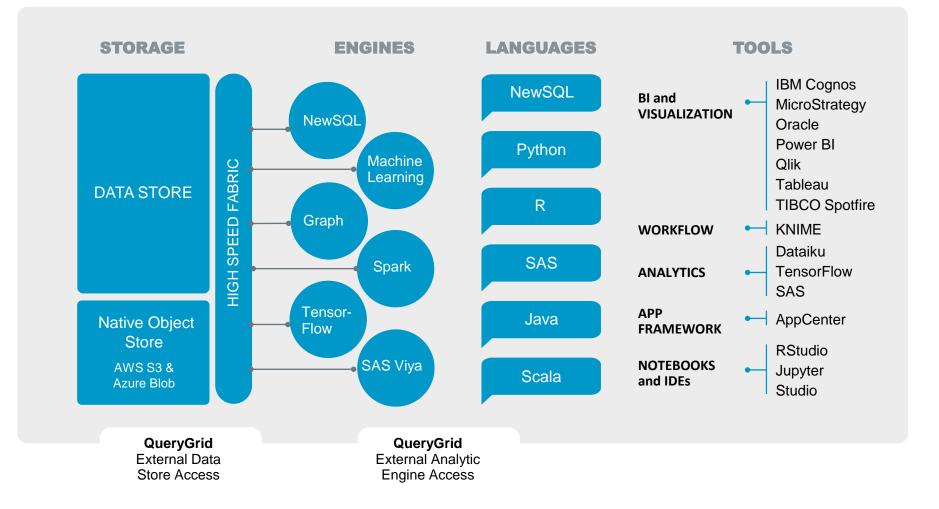


Teradata SQL engine natively accesses external object stores

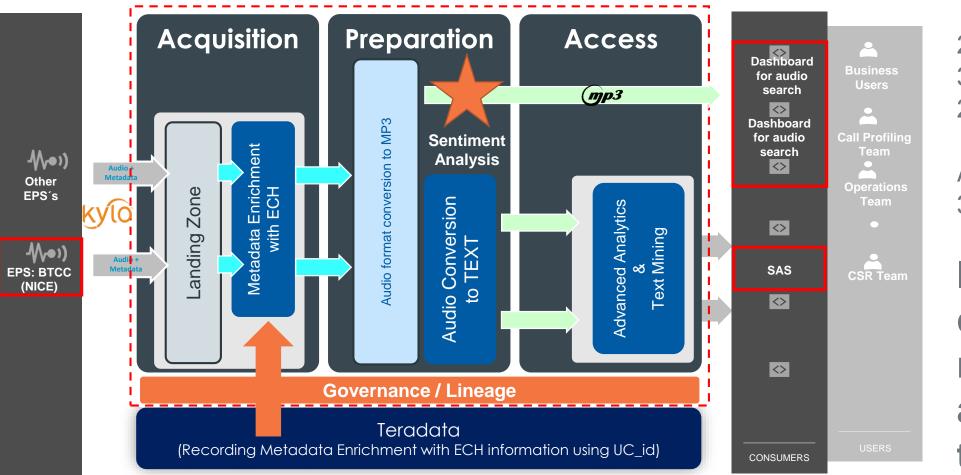
Run SQL queries and joins across structured and semi-structured data

Answer more business questions than ever before

## Teradata Vantage – Future (2020+)



### **Sample Real-World Request - Call Center Analytics**



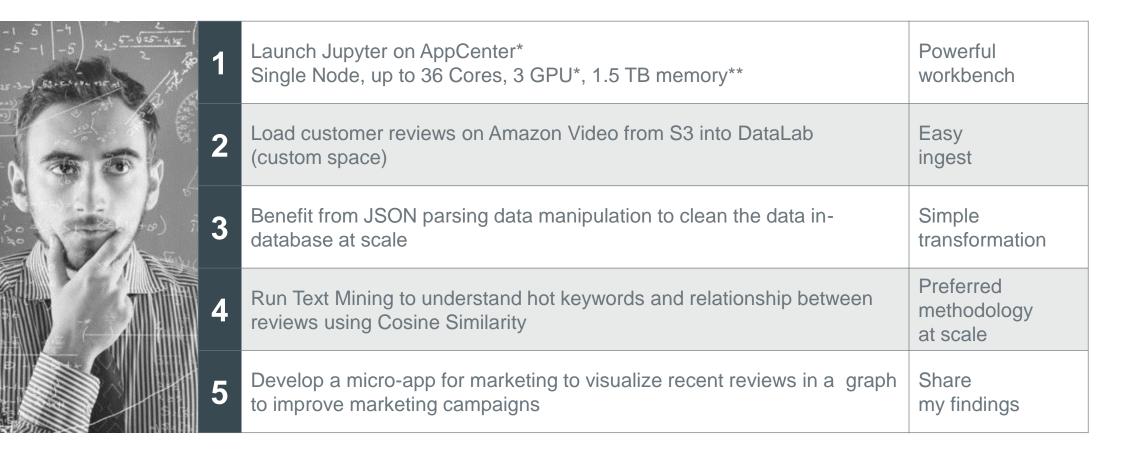
20,000 calls per day36 different languages20 call centers

Average call duration 3 minutes

Is the customer really happier at the end of the call?

## Day in the Life of a Data Scientist

## Day-in-the-life of a Data Scientist: What Gems Can We Find in Our Customer Reviews?



\* Considered option for the future

\*\* Technical maximal limit

## Deep Dive Example: Clustering of Movie Reviews Using Text Clustering and Graph

### Amazon Prime Video Show Reviews (JSON) from UCSD

What **insights** & **hidden gems** are in the review text?

{"reviewerID": "A11N155CW1UV02", "asin": "B000H00VBQ", "reviewerName": "AdrianaM", "helpful": [0, 0], "reviewText": "I had big expectations because I love Eng ("reviewerID": "A1PG2VV4W1WRPL", "asin": "B000H0X790", "reviewerName": "Jimmy C. Saunders "Papa Smurf"", "helpful": [0, 0], "reviewText": "It beats watching ("reviewerID": "A3RXD7Z44T9DHW", "asin": "B000H0X790", "reviewerName": "Kansas", "helpful": [0, 0], "reviewText": "This is the best of the best comedy Stand-{"reviewerID": "AUX8EUBNTHIIU", "asin": "B000H0X790", "reviewerName": "Louis V. Borsellino", "helpful": [0, 0], "reviewText": "Not bad. Didn't know any of the co {"reviewerID": "AXM3GQLD0CHIL", "asin": "B000H0X790", "reviewerName": "Ray Shiva", "helpful": [0, 0], "reviewText": "Funny, interesting, a great way to pass time ("reviewerID": "A39F2EW27YYUDM", "asin": "B000H29TXU", "reviewerName": "Emily Booth", "helpful": [0, 0], "reviewText": "Watched it for Kevin Hart and only Kev ("reviewerID": "A01Z6309CTT95", "asin": "B000H29TXU", "reviewerName": "James Westervelt", "helpful": [0, 0], "reviewText": "he's OK. His humor consists mainly {"reviewerID": "A2JE0JYIZL5NU4". "asin": "B000H2DMME", "reviewerName": "C. A. Neal", "helpful": [0, 0], "reviewText": "I only watched the Wanda Sykes portion of {"reviewerID": "A2LSZFEFTDRDIJ", "asin": "B000H2DMME", "reviewerName": "debra marrero", "helpful": [0, 0], "reviewText": "Enjoyed some of the comedians, it wa {"reviewerID": "AAWV26JJ1SGS0", "asin": "B000H2DMME", "reviewerName": "Margaret G. Louk "loves music"", "helpful": [0, 0], "reviewText": "There were some go ("reviewerID": "AXM3GQLD0CHIL", "asin": "B000H2DMME", "reviewerName": "Ray Shiva", "helpful": [0, 0], "reviewText": "Great variety of good comics. Each show it ("reviewerID": "AYCGI5JRRISTJ", "asin": "B000H2DMME", "reviewerName": "Roger Keith Ing", "helpful": [0, 0], "reviewText": "I loved the humor of the stand-up comi {"reviewerID": "A1939G7K0LLQ8P", "asin": "B000H2DMME", "reviewerName": "Rugby", "helpful": [0, 0], "reviewText": "It was fine - not my favorite but a comic on h {"reviewerID": "A3DG93E8TXMKZF", "asin": "B000H4YNM0", "reviewerName": "BytemanProofreader at Gmail "JohnnyWill"", "helpful": [1, 2], "reviewText": "This is a ("reviewerID": "ALLV1OUJL3WN6", "asin": "B000H4YNM0", "reviewerName": "Chad A. Barts "Chadillac"", "helpful": [0, 0], "reviewText": "Season 2 of It's Always Su ("reviewerID": "ALZWY9L4E5GXO", "asin": "B000H4YNM0", "reviewerName": "Donna Smith", "helpful": [0, 0], "reviewText": "Got these for my son's birthday. He say {"reviewerID": "A2WDV8ACOG5LSA", "asin": "B000H4YNM0", "reviewerName": "Elisa Bohanan", "helpful": [0, 0], "reviewText": "The show is a little bit dry, but is def {"reviewerID": "A1NF9WS7RR82MX", "asin": "B000H4YNM0", "reviewerName": "J. Hill", "helpful": [0, 0], "reviewText": "Out of all the new comedies that have come ("reviewerID": "AL6Q4IIX5MFQZ", "asin": "B000H4YNM0", "reviewerName": "John\_in\_NC", "helpful": [0, 0], "reviewText": "It's basically a slightly less intelligent versi {"reviewerID": "A2QWF2BJ2FM4R2", "asin": "B000H4YNM0", "reviewerName": "Lovblad", "helpful": [0, 0], "reviewText": "This series revolves around 4 friends who {"reviewerID": "ATECU14VUIOJO", "asin": "B000H4YNMO", "reviewerName": "Miss Barbara", "helpful": [0, 0], "reviewText": "I was pleasantly surprised with this "out {"reviewerID": "A3RA13OPEIKLQ9", "asin": "B000H4YNM0", "reviewerName": "N. Dillon "International reader"", "helpful": [0, 0], "reviewText": "I wish I were a part of {"reviewerID": "AHYJONISOLE1X", "asin": "B000H4YNM0", "reviewerName": "NoPushover", "helpful": [0, 0], "reviewText": "I heard about It's Always Sunny from a Ke {"reviewerID": "A210AQRLS60AW3", "asin": "B000H4YNM0", "reviewerName": "Scott Towers", "helpful": [0, 0], "reviewText": "Fan-tastic. This is a show about territ {"reviewerID": "A3UKF6Q4NCPQR3", "asin": "B000H4YNM0", "reviewerName": "Sydney Domville", "helpful": [0, 0], "reviewText": "I love this show and I don't think t {"reviewerID": "A9W4HRJ4P6G5A", "asin": "B000H4YNM0", "reviewerName": "XbroknlegsX", "helpful": [0, 0], "reviewText": "I love it's always sunny and wanted to o ("reviewerID": "A5M1M9IJEQ8J2", "asin": "B000HAB4NK", "reviewerName": "Bill E. Bissett", "helpful": [0, 0], "reviewText": "Non stop action with edge of your seat t {"reviewerID": "AD342OQX4EFN7", "asin": "B000HAB4NK", "reviewerName": "Donkey", "helpful": [0, 0], "reviewText": "I had a hard time following this show when it

ison

amazon\_raw (table)

# Benefit from JSON parsing data manipulation to clean the data in-database at scale

```
CREATE TABLE demo.amazon reviews ubjson (
 id INTEGER,
 bson data JSON(5000) STORAGE FORMAT UBJSON
PRIMARY INDEX(id);
INSERT INTO demo.amazon_reviews_ubjson VALUES(2814, '{' ||
    '"reviewerID" : "A3JNY2MSXKTXZW", ' ||
    '"asin number" : "B0012QRPU4", ' ||
    '"reviewerName" : "Jerry D. Mills", ' ||
    '"reviewText" : "Enjoy it so far but Ive not yet finished the series. Anxious for the next seson season good or bad", ' ||
    '"overall" : "4", ' ||
    '"reviewSummary" : "different", ' ||
    '"unixReviewTime" : "1389139200."'
    '}');
SELECT
   bson data.reviewerID AS reviewerID,
   bson data.reviewText AS reviewText
FROM
   demo.amazon reviews ubjson;
```

### **Transform Text to Vector Space Model (TF/IDF)**

how ofterm in	requency (i.e ten occurs the this documer / 28 = 0.0357	Fre is t doo nt) like	erse Docume quency (i.e. h he term acros cument, invers lihood to find cument with th	now rare ss all se of a nis term)	docid         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0	i term i investigative had didn't guy big to because boring me in this but tv all	frequency       2       1	ngran frequ FROM nC ON (S USINC Tex	<pre>Gram@coprocessor ( SELECT id, bson_data.reviewtext AS reviewtext FROM demo.amazon_reviews_ubjson) G xtColumn ('"reviewtext"') ams ('1')</pre>
docid	term	tf	idf	u_iui	••••	TF*IDF: ho			
0	boring		7 4.0878834531 7 2.5887623727			peculiar is			
0	tv		7 0.9412510094			term in this			TE IDE function
0	ls			0.0000101074		document			
	10		0 5835293875	0.0208403352					TF_IDF function
0	at			0.0208403352				2	
0		0.035714285	7 1.8749105188	0.0669610899				2	"words statistics"
0 0 0	at investigative detective	0.035714285 0.035714285		0.0669610899 0.2611233615				2	
0 0 0	investigative	0.035714285 0.035714285 0.035714285	7         1.8749105188           7         7.3114541222           7         4.3577700849	0.0669610899 0.2611233615 0.1556346458				2	
0 0 0 0	investigative detective	0.035714285 0.035714285 0.035714285 0.035714285	7 1.8749105188 7 7.3114541222	0.0669610899 0.2611233615 0.1556346458 0.1091520959				2 SELECT	
0 0 0 0 0 0	investigative detective	0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285	7         1.8749105188           7         7.3114541222           7         4.3577700849           7         3.0562586876	0.0669610899 0.2611233615 0.1556346458 0.1091520959 0.0213774785				SELECT *	
0 0 0 0 0 0 0	investigative detective didn't it	0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285	7         1.8749105188           7         7.3114541222           7         4.3577700849           7         3.0562586876           7         0.5985693986	0.0669610899 0.2611233615 0.1556346458 0.1091520959 0.0213774785 0.0175284209				SELECT * FROM tf_ ON tf@	"Words statistics"
0 0 0 0 0 0 0 0 0	investigative detective didn't it	0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285	7         1.8749105188           7         7.3114541222           7         4.3577700849           7         3.0562586876           7         0.5985693986           7         0.4907957854	0.0669610899 0.2611233615 0.1556346458 0.1091520959 0.0213774785 0.0175284209 0.0541724198				SELECT * FROM tf_ ON tf@ ON (	"Words statistics" idf@coprocessor ( @coprocessor ( (SELECT docid, term, frequency FROM demo.amazon_tokens) PARTITION BY docid
0 0 0 0 0 0 0 0 0 0 0	investigative detective didn't it this all	0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285	7         1.8749105188           7         7.3114541222           7         4.3577700849           7         3.0562586876           7         0.5985693986           7         0.4907957854           7         1.5168277548	0.0669610899 0.2611233615 0.1556346458 0.1091520959 0.0213774785 0.0175284209 0.0541724198 0.0896719252				SELECT * FROM tf_ ON tf@ ON ( ) AS t	_idf@coprocessor ( @coprocessor ( @select docid, term, frequency FROM demo.amazon_tokens) PARTITION BY docid tf PARTITION BY term
0 0 0 0 0 0	investigative detective didn't it this all because	0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285	7         1.8749105188           7         7.3114541222           7         4.3577700849           7         3.0562586876           7         0.5985693986           7         0.4907957854           7         1.5168277548           7         2.5108139066	0.0669610899 0.2611233615 0.1556346458 0.1091520959 0.0213774785 0.0175284209 0.0541724198 0.0896719252 0.0108481087				SELECT * FROM tf_ ON tf@ ON ( ) AS t	_idf@coprocessor ( @coprocessor ( SELECT docid, term, frequency FROM demo.amazon_tokens) PARTITION BY docid tf PARTITION BY term elect CAST(COUNT(distinct(docid)) AS INT) AS "count" FROM demo.amazon_tokens) as doccount dimensio
0 0 0 0 0 0 0	investigative detective didn't it this all because and	0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285 0.035714285	7         1.8749105188           7         7.3114541222           4.3577700849            3.0562586876            7         0.5985693986           7         0.4907957854           7         1.5168277548           7         0.3037470460	0.0669610899 0.2611233615 0.1556346458 0.1091520959 0.0213774785 0.0175284209 0.0541724198 0.0896719252 0.0108481087 0.0717091643				SELECT * FROM tf_ ON tf ON ( ) AS t on (se	_idf@coprocessor ( @coprocessor ( SELECT docid, term, frequency FROM demo.amazon_tokens) PARTITION BY docid tf PARTITION BY term elect CAST(COUNT(distinct(docid)) AS INT) AS "count" FROM demo.amazon_tokens) as doccount dimensio

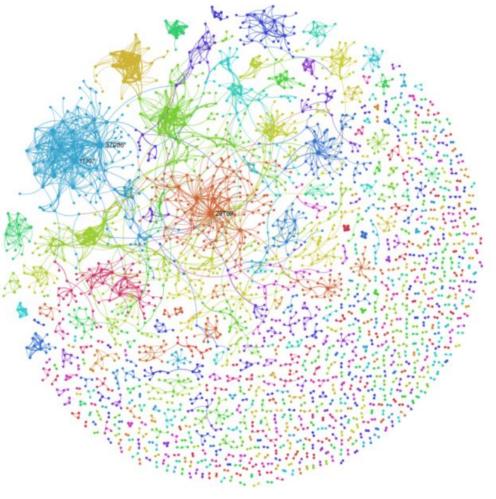


## **Run Cosine Similarity between Doc Vectors and Create Sigma Visualization**

3 Cosine Similarity "compare all reviews"

#### SELECT

```
target_docid,
ref_docid,
1-distance as cosine_similarity
FROM VectorDistance@coprocessor (
    ON demo.amazon_tf_idf AS target partition by docid
    ON demo.amazon_tf_idf as ref dimension
    targetIdColumns('docid')
    targetFeatureColumn('term')
    targetFeatureColumn('term')
    targetValueColumn('tf_idf')
    measure('Cosine')
    topK(100)
) AS Tbl
```





## **Visualize and Drill Down in App Center**



### "Covert Affairs"

Covert Affairs is getting better and better and I was disappointed that season 4 is not ready for Amazon Prime! [less]

Good entertainment. I love the episodes. Definitely worth my time to watch Covert Affairs. I like variety and it has plenty of different stories. [less]

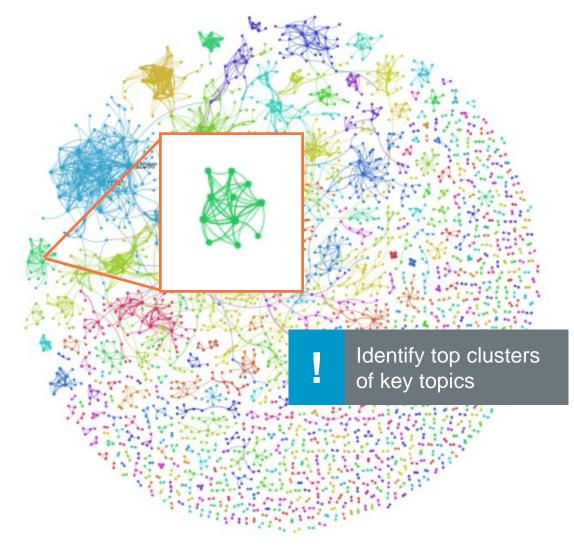
I like Covert Affairs, but it is still building dimensions. I tend to compare it to Alias and I see the importance of the difference with Covert Affairs. The truth is that there is still a better view of the CSI with Covert Affairs but the depth of characters is thin and I am waiting for that breakout year. This is true with almost any series. There is a year that puts it apart for the pack.

I am very pleased with my purchase. This season of Covert Affairs was another great season of the series. I am looking forward to next season of Covert Affairs. [less]

Hi All,Covert Affairs is an excellent series, highly recommend it. So tired of cop shows and CSI, Covert Affairs brings something different to the viewing public. [less]

This is a very exciting season on Covert Affairs and it is well written and certainly holds my interest. Trying to take down the vilian of this show is very interesting and exciting. Bravo to Covert Affairs [less]

☑ Next season of Covert Affairs didn't let us down. There is good interplay between the characters and intrigue and interesting twists in the storyline. We enjoy watching it. [less]





## **Visualize and Drill Down in App Center**



### "Edge of your seat"

this show keeps you on the edge of your seat!!! so good!! we can not wait until the next season [less]

I love the characters, the plot, and the story line. It keeps you hanging by the edge of your seat. [less]

This is an awesome TV show! Very entertaining, keeps you on the edge of your seat guessing what's going to happen next. [less]

it is a very intense show that keeps you on the edge of your seat all the time. I can't wait for season 6 to come out. [less]

i was on the edge of my seat

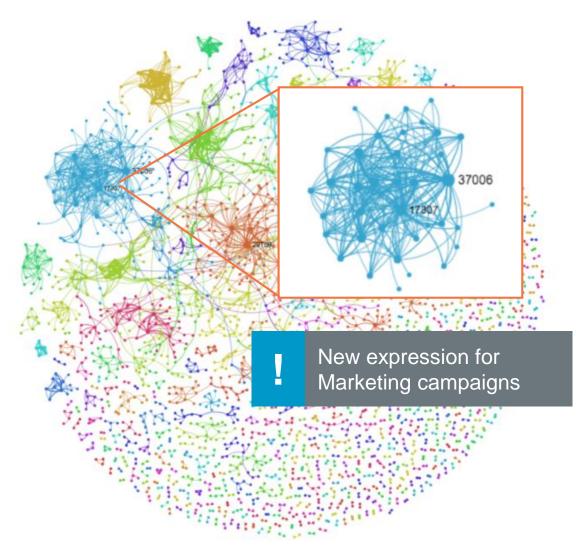
KEEPS YOU ON THE EDGE OF YOUR SEAT!! Cant wait for the next season! I'm chomping at the bit for it!

I love the characters and the theme of the show. It keeps you hanging by the edge of your seat. [less]

The best season ever. Keeps you on the edge of your seat the whole time. So many surprises in each episode.

#### --,

My husband absolutely loves this show. The drama is good, the action is great, and the plot keeps you on the edge of your seat. [less]





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## Two More Customer Successes

Companies have challenges, problems, and questions.

Teradata has the answer.

# **GENERAL MOTORS' ANSWER:**

With millions of connected cars, General Motors' world vision is to keep customers safer and improve city roads

Crashes, emissions, congestion

# LARRY H. MILLER'S ANSWER;

Larry H. Miller Sports & Entertainment uses analytics to keep the team playing its best and give its loyal fans a winning season

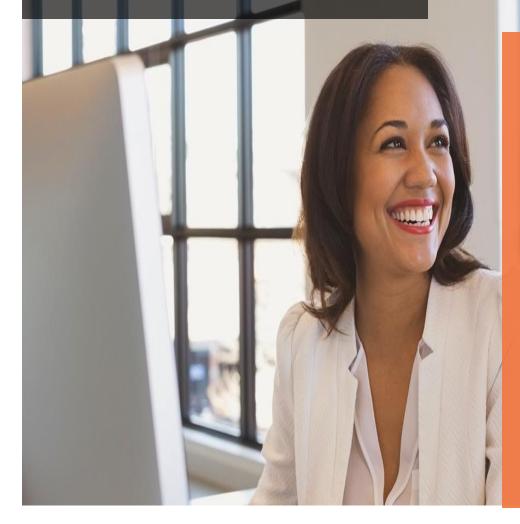
# Wins per season

**15C** 

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## Teradata University Network (TUN) Overview

# Teradata University Network At a Glance



## Teradata's *FREE* academic outreach program from TERADATA, supporting:

- over 7,000 registered faculty
- tens of thousands of students
- from over 2,500 universities
- in 124 countries

**Resources support courses in:** analytics, big data, BI/DSS, database technologies, data warehousing, with hands-on software tools

**Programs include:** annual student competitions, career fairs, faculty workshops and contests.

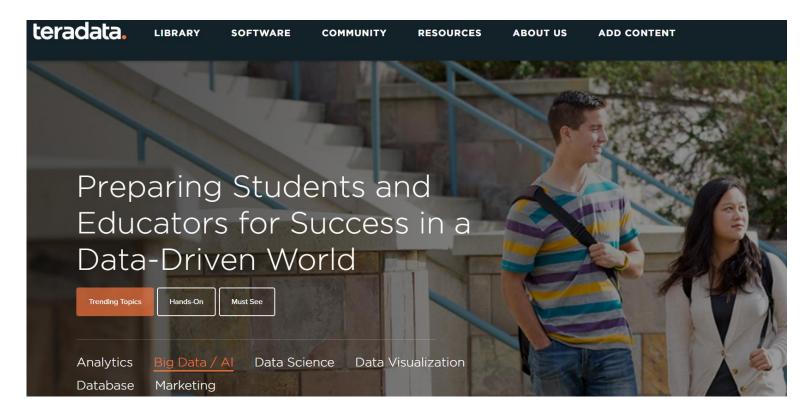
Established in 2002

www.teradatauniversitynetwork.com



### **TUN Website**

- 90% TUN Content developed by Faculty (TUN board members)
- Simple Navigation
  - LIBRARY
  - SOFTWARE
  - COMMUNITY
  - RESOURCES



### Library – Browsing Resources

- Search by Topic
- Search by Asset Types
  - Assignments
  - Case Studies
  - Teaching Notes
  - Videos
  - Others
- Search by Audience

IBRARY SOFTWAR	E COMMUNITY	Y RESOURCES	ABOUT US	ADD CONTENT
Search Library	BSI: Teradata	Sports Analytics 🗸	Teradata Tech Talks	Marketing Gateway  ×
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MOST RECENT -	● Ass □ Assignm □ Case St Getti □ Dataset	udy		Assignment High School Email
All Topics	Table Data Di Schc FAQ			Templates Oct 22 2018
<ul> <li>Analytics</li> <li>Big Data / AI</li> </ul>	Tablea □ Powerpo data a □ Project	int Presentation	Impress your peers and faculty with well-written emails. These templates will set you up for success with help requesting	
<ul> <li>Database</li> <li>Marketing</li> </ul>	visuali	tart Guide s (e.g., Articles, White h Reports) Work		
<ul> <li>Data Science </li> <li>Data Visualization </li> </ul>	VIEW D 🗆 Syllabu	s g Notes		VIEW DETAILS $\longrightarrow$
aradatauniversitynetwork.com//Getting-Started-	□ Tutoria □ Webinar with-Tableac <sup>®</sup> or-High-Scip. Video			🐓 FAQ

### Library - BSI – Business Scenario Investigations

**BSI: Teradata** is a fast-paced drama about a team of data and analytic specialists trained to solve business problems by examining data.

The stories are hybrids from customer situations that blend actual applications and future uses of technology that use data to make better, faster decisions.

There are 13 episodes that follow a simple plotline just like the TV show: Business problem – data – insights – action

Each episode includes video, teaching notes and supporting slides



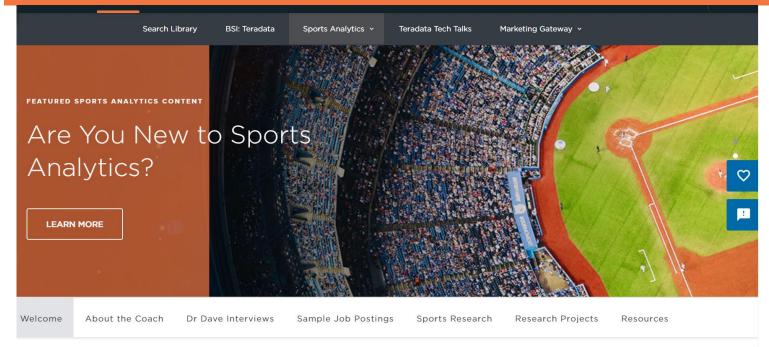
BSI: Teradata is a fast-paced drama about a team of data warehousing and analytic specialists trained to solve business problems by examining data. There are over 10 episodes that follow a simple plotline just like the TV show: Business problem – data – insights – action. The stories are hybrids from current customer situations that blend actual applications and future uses of technology that use data to make better, faster decisions.



Author: Dave Schrader



### Library - Sports Analytics



### **Resources for faculty and students**

- Modules for classes
- Collaborative Sports Analytics Research by TUN Faculty and Students
- Sports Analytics Data Sets and Research
- Recommended Books, Articles, and Videos
- Moneyball on Campus Guest Speaker Opportunities



### Software - The Power of TUN Partners

TUN partners provide opportunities to expose students to the most current analytic and big data tools and software with FREE Hands On Access!



acm

Association Partnerships:



decomputer
 society

Association for Computing Machinery



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# Student Competitions (Data & Analytics Challenge)

## **TUN Student Competitions**

Overview	In our 6 <sup>th</sup> year in 2019, TUN's Annual Student Competitions provide students the opportunity to share their skills and talents with professionals from the world's biggest companies and help our annual non-profit partner.
Analytics	Leverage their own data and any tools for analysis
Challenge	Judged on quality of analysis and visualizations
Data	Works with data and business questions from a non-profit
Challenge	Non-profit participates in selection of finalists and judging at conference

Submissions are encouraged from high school (\*analytics challenge), university undergraduate and graduate (Master's degree candidates) students.

Submissions can be based on work done by an individual or a team (up to 5), but should be submitted by one lead person.



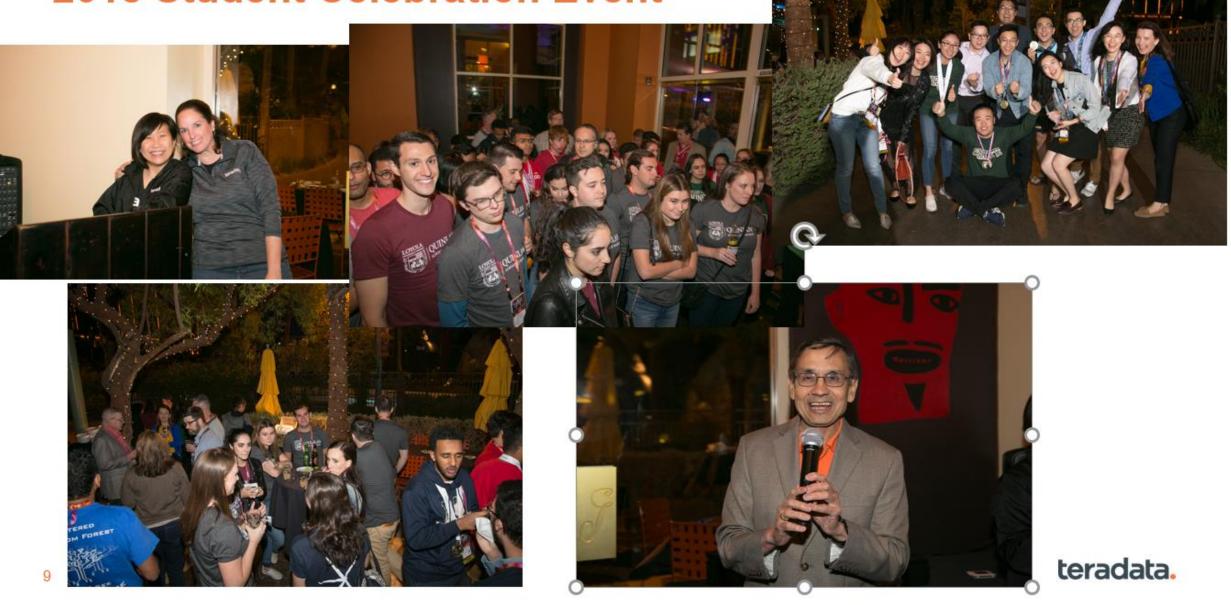
62







## **2018 Student Celebration Event**



## **2018 Analytics Challenge Winners**

### **Overall Winner:**

Loyola University Chicago (Taxi vs. Ride Share) David Faust, Katherine Fox, Grace Boos, Natalie Dusina, Samantha Schaller

Best Use of Analytics and Visualization: California State Fullerton (Opioid Epidemic) Mansi Bhat

Q

### People's Choice:

10

Concord Academy High School (Guns in Schools) Lucas Ewing & Haley Wixom (pictured) August Pokorak, Kenneth Lin, Quinn Meyerson





## 2018 Data Challenge Winners

**Overall Winner**: Washington University St. Louis Ariel Tien, Songyi Wang, Di Ai, Xinyi Liu, Ziwei Liu

### Most Value to National MS Society:

North Carolina State University Jaideep Basak, Ryan Randall, Dena Simkus (pictured) Anjanie Kashidas

People's Choice: ESCP Europe Fahd Lemhaider, Marie Tourdes, Chiao-Ann Tsai, Anke Joubert

**Teradata Technology Award:** UNC Charlotte Praveen Sharma (Data Challenge Honorable Mention)





# REGISTER – All faculty and students can register for free! <u>www.TeradataUniversityNetwork.com</u>

Student Access Password: Analytics

SHARE – Help spread the word to faculty!

ENGAGE - Promote TUN resources, competitions and program with your local university!

Questions? Please email TUN Program Manager: Yenny.yang@Teradata.com





The Future of Data, Analytics & Machine Learning



Teradata's vision for managing the continuous disruption with a **sentient enterprise** and our **Vantage products** 



How analytics and data science can be used to solve real-world problems at-scale in enterprises 3

What free learning resources Teradata makes available to students and professors



# Thank you.



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