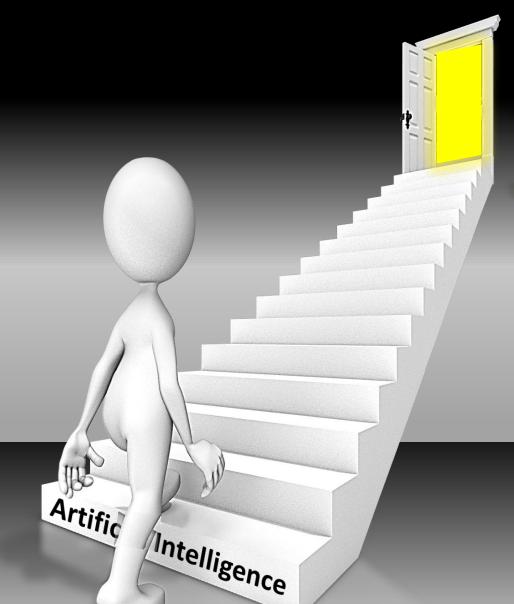
How Will A Change:



DATA LITERACY & ACCESS TO INSIGHTS?



DATA LITERACY

Wendy D. Lynch PhD.

High Literacy

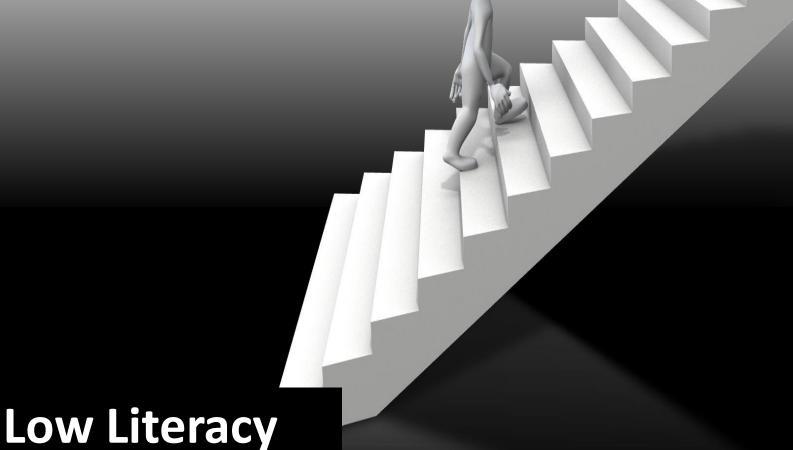
Ninety percent of business leaders believe data literacy will be critical to their success.

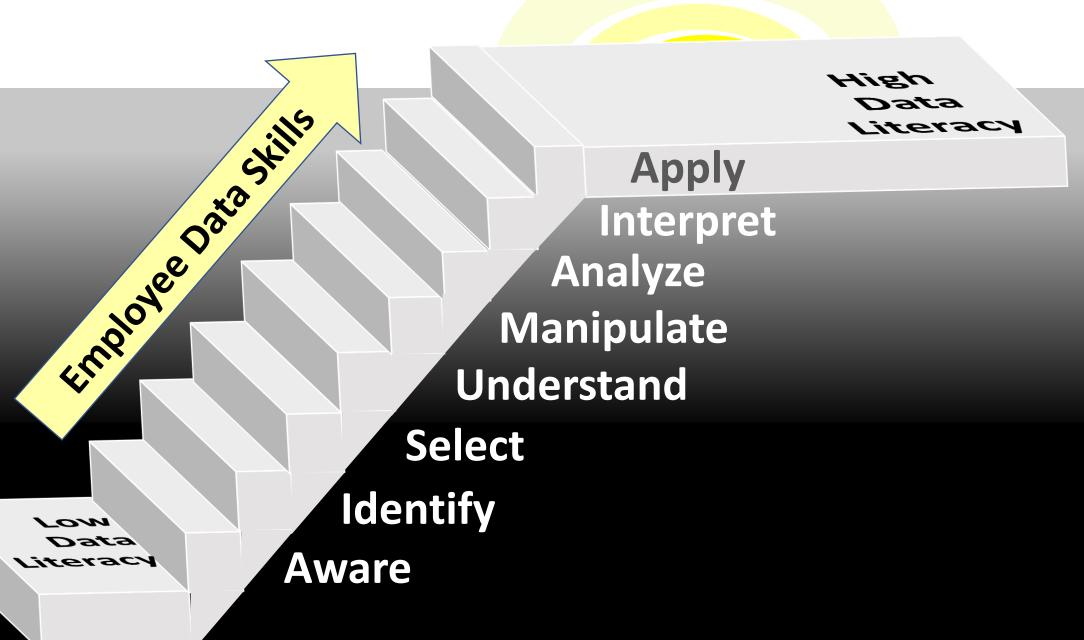
Basic definition:

Ability to

- Read,
- Write, and
- Argue

with data





Literacy Data

Apply
Interpret
Analyze
Manipulate
Understand
Select

Identify Aware Is our goal to get everyone to the top?

How do we do that?

Low Data Literacy

1. Training

Designate owner

Make the business case

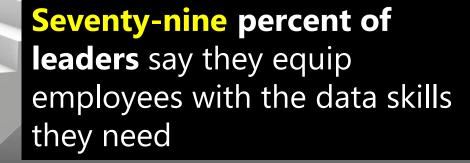
Structured education

Scale

High Data Literacy



High Literacy



BUT.....

But only forty percent of employees say they're provided the data skills they're expected to have



Leaders Overestimate Current Levels of Literacy

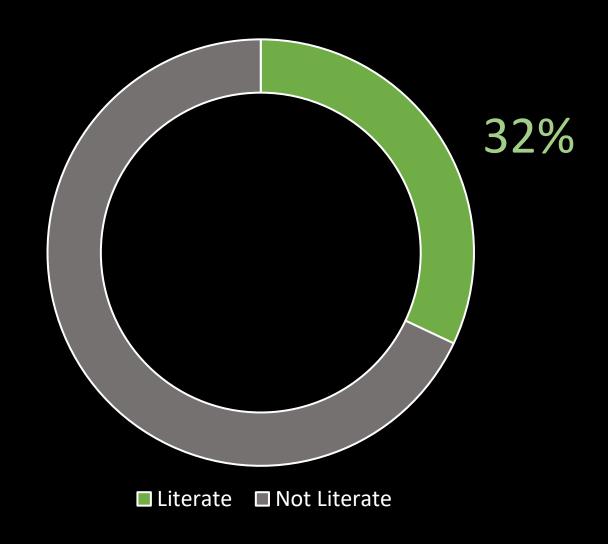
Recent studies find that only 21% of employees are confident in their data skills

Other studies estimate fewer than 10% have high literacy



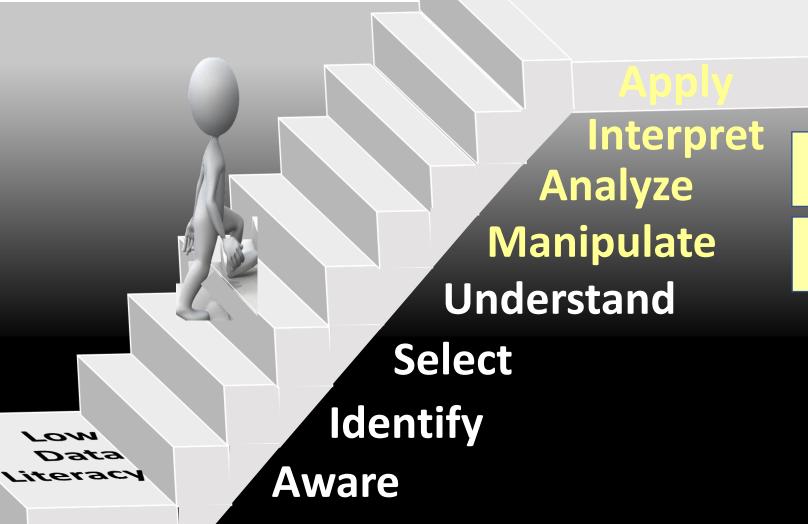


Percent of C-Suite Executives Considered Data Literate



1. Training

LOW



High eted VSEYSTIL

Data Science Orientation

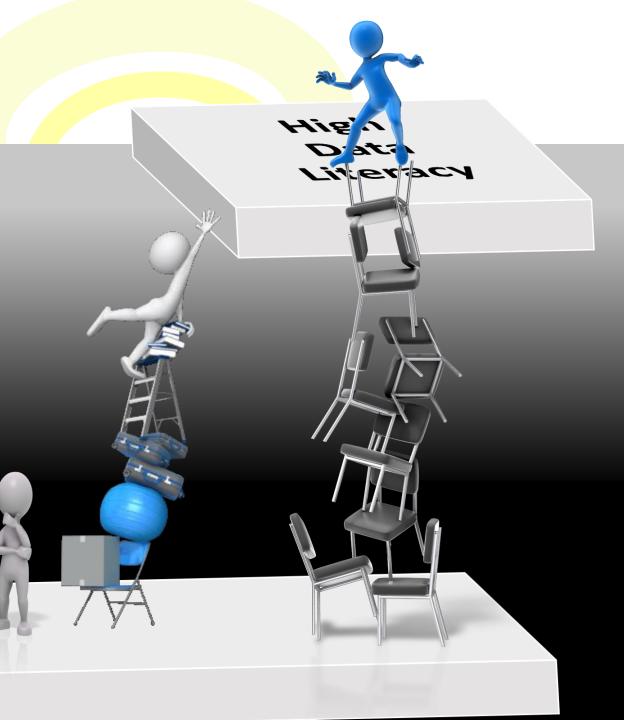
Goal: Analytic Skills

What will it take?

Is it realistic?
For every organization?
For every employee?

ETEO

Vaeratil



Is Literacy Really the Goal?

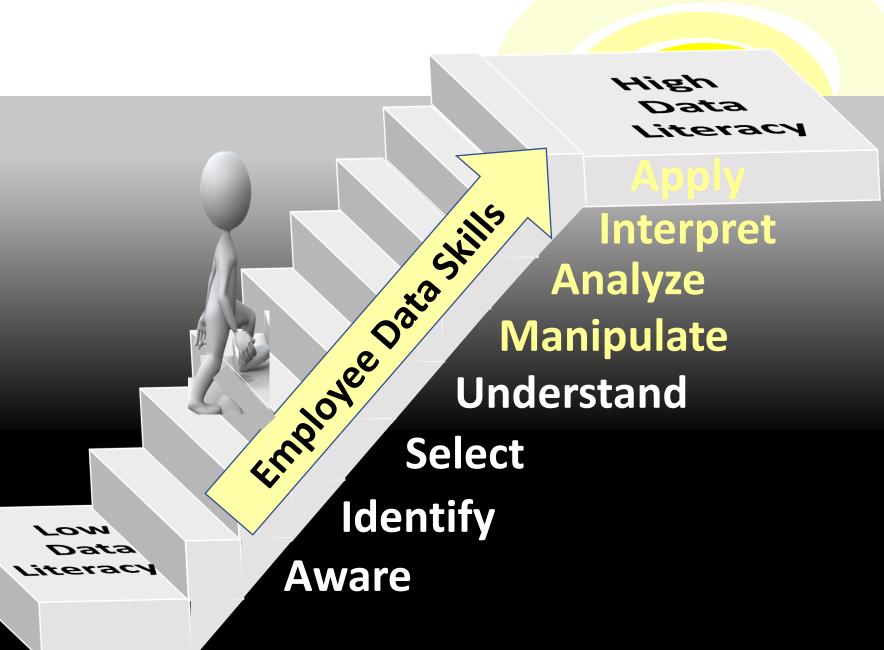
Or is it to be: HighlyHighighteDaiwen



Company-wide intelligent, information-driven decisions and actions.

Consistently

- Use timely information
- Notice problems and opportunities
- Ask better questions
- Make better decisions
- Extract insights at all levels



Insights From Data

Requires advanced analytic skill, data sophistication

Requires moderate analytic skill, data experience

Requires basic data manipulation, data knowledge

Available to anyone with minimal expertise



Moderate Data Literacy



Requires advanced analytic skill, data sophistication

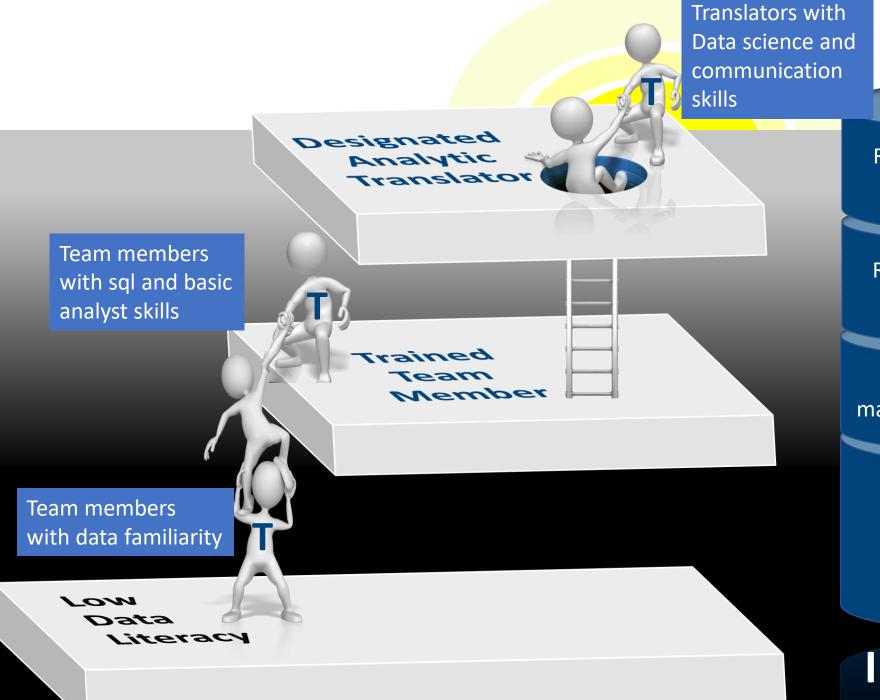
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Low Data Literacy





trom Data

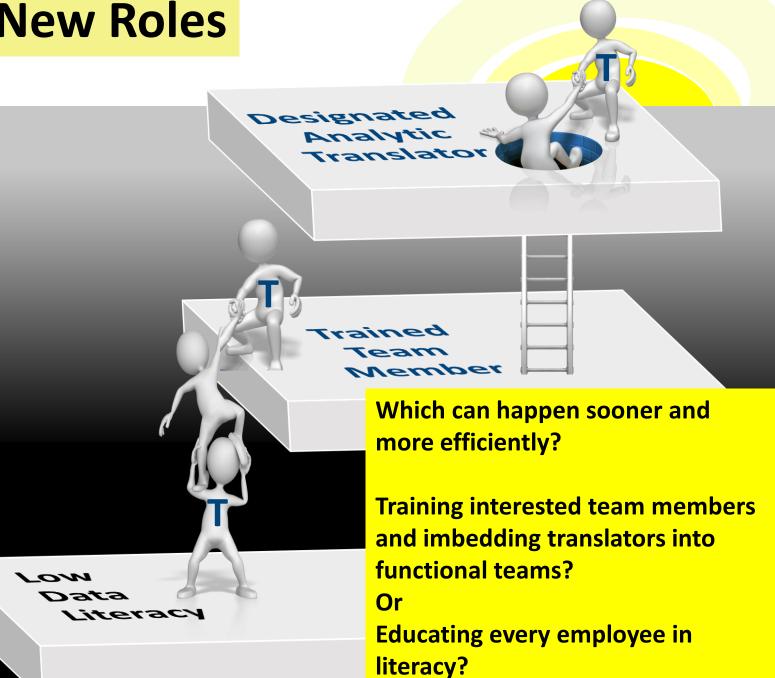
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2. New Roles



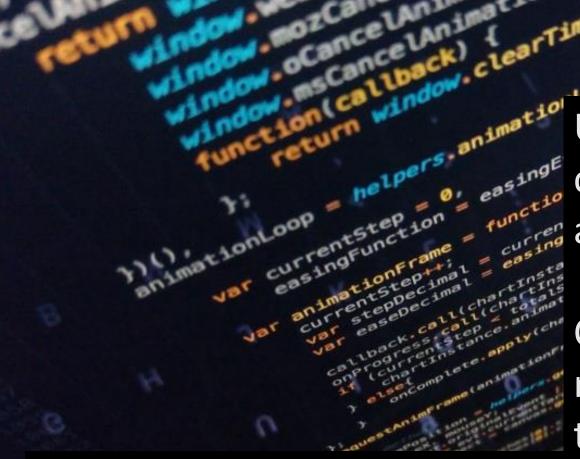
From Data

Requires advanced analytic skill, data sophistication

Requires moderate analytic skill, data experience

Requires basic data manipulation, data knowledge

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Until the late 1970s computers were only used by (and available to) programmers.

Computing accessibility was restricted to those with specialized training.

Democratization of computing

Advances in hardware, PCs, and

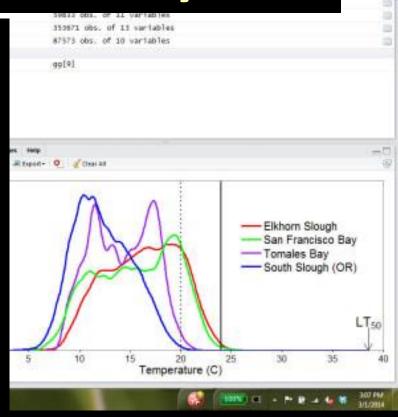
GUI opened access to the general public.

Will there be democratization of analytics?

With guidance, ML algorithms can already recognize, catalog, curate and classify data.

Once cataloged and connected, business rules and working definitions can be applied, with AI learning more and more data types

With NLP, CHatGPT and GPT-4 can convert spoken questions into SQL and produce graphics.





Moderate Data Literacy



Low Data Literacy



Requires advanced analytic skill, data sophistication

Accessed through natural language

Accessed through natural language

Available to anyone with minimal expertise

3. New Access

Fiterach Dața High trom Data

Requires advanced analytic skill, data sophistication

Moderate Data Literacy

Which can happen sooner and more efficiently?

Educating every employee in literacy?

Or

Al and Chat getting smart enough for drastically improved access?

e to anyone with mal expertise

Low Data Literacy

Is Literacy Really the Goal?

Or is it to be: Highly Insight Driven

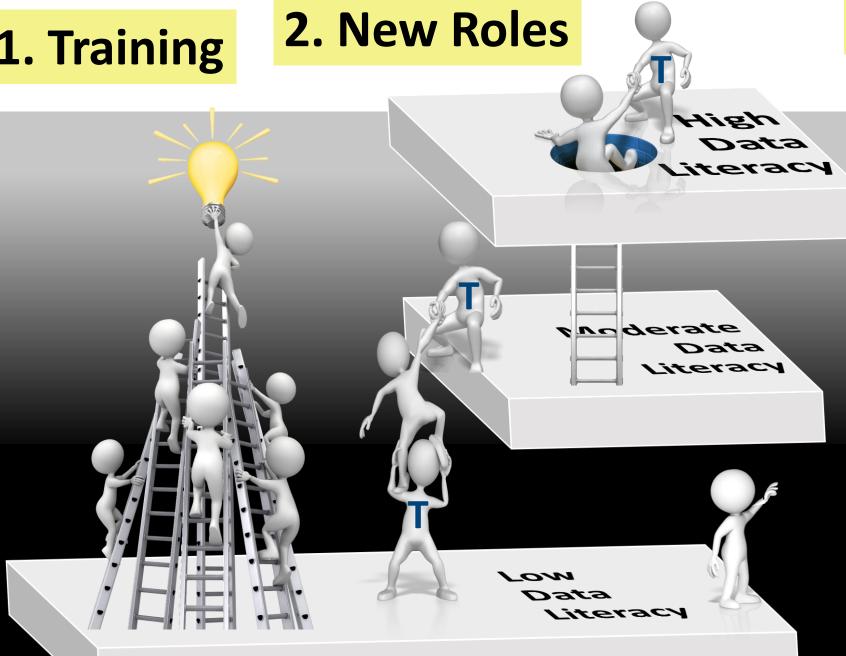


Company-wide intelligent, information-driven decisions and actions.

Consistently

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- Extract insights at all levels

1. Training



3. New Access

From Data Requires advanced analytic

skill, data sophistication

Available to anyone with minimal expertise



Sonny Rivera
Chief Analytics Evangelist at ThoughtSpot

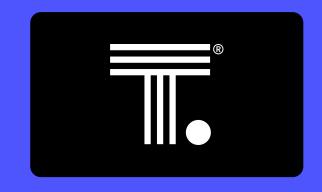


Aashish Singhvi Founder / CEO of DvSum





How will Al change data literacy and access for everyone?





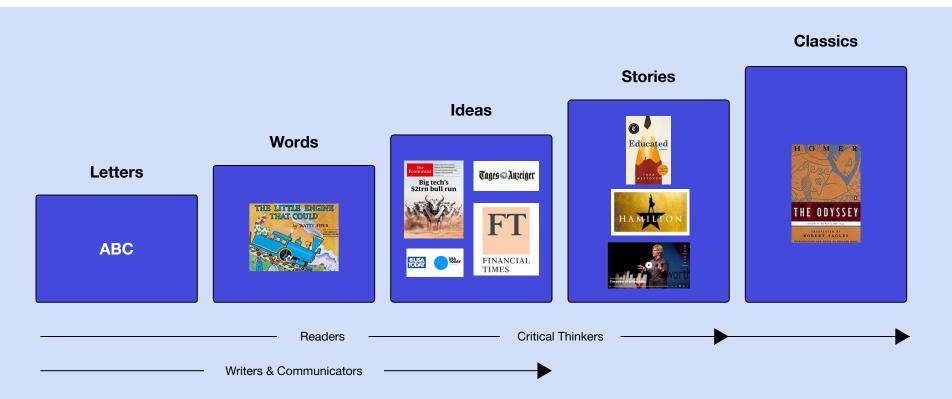
Sonny Rivera
Sr. Analytics Evangelist
@rgrivera

The gap between data-driven leaders and laggards continues to widen

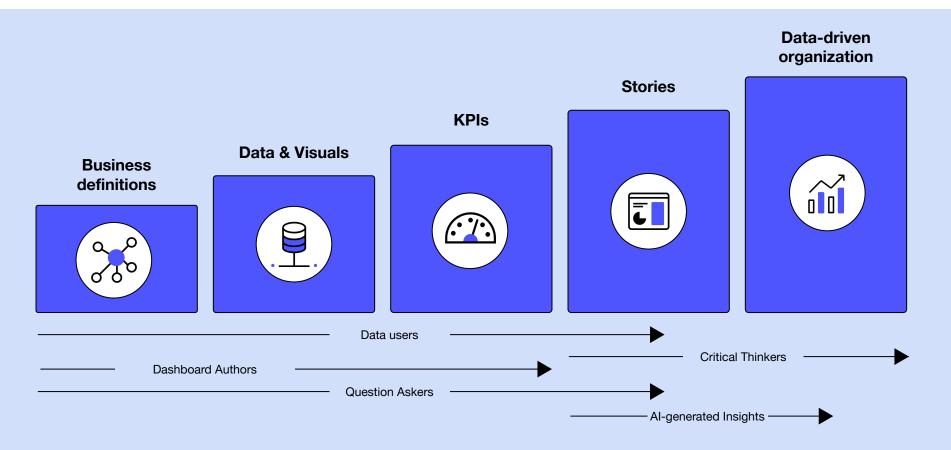




Building Blocks for Data Fluency: An Analogy



Building blocks for data fluency





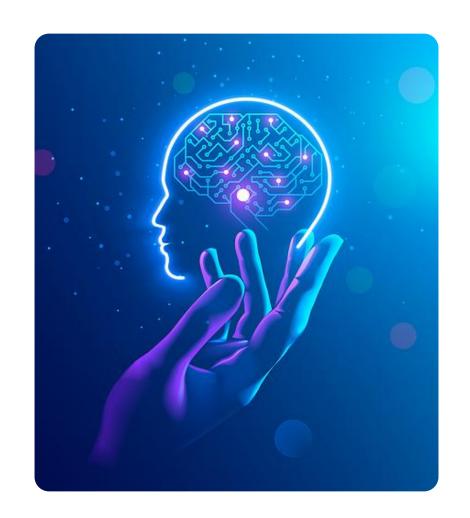
DEMO

ThoughtSpot Sage

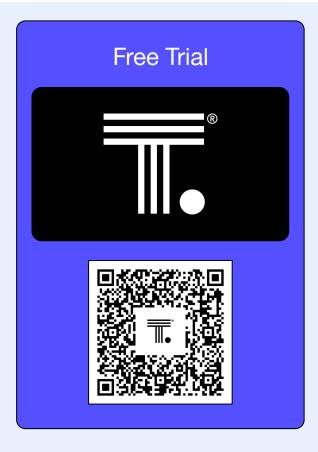
Throughout 2023, generative AI will be infused throughout the data and analytics workflow to accelerate the creation of data products by business domains.

The opportunities are only limited by imagination and constrained by technical debt and legacy thinking.

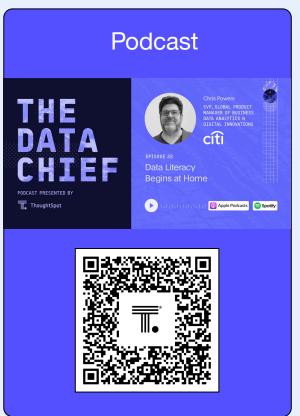
First movers who embrace human-in-the-loop and AI ethics will have a lasting and outsized advantage.



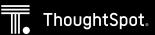
Resources







Thank you!







How will Al change Data Literacy

Aashish Singhvi Aug '23

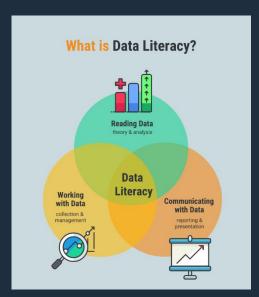
Contents



- Typical Approach to Data Literacy
- Challenges & Pitfalls
- How can AI help?
- DvSum Solution

Typical Approach





Source: Venngage





Source: BOL.com

Challenges in current approaches





Friction with users.
Excessive Focus on
Methods &
Techniques



Difficult to measure quantifiable value



Toxic divide between Data Producers and Consumers

What we really need to solve is...





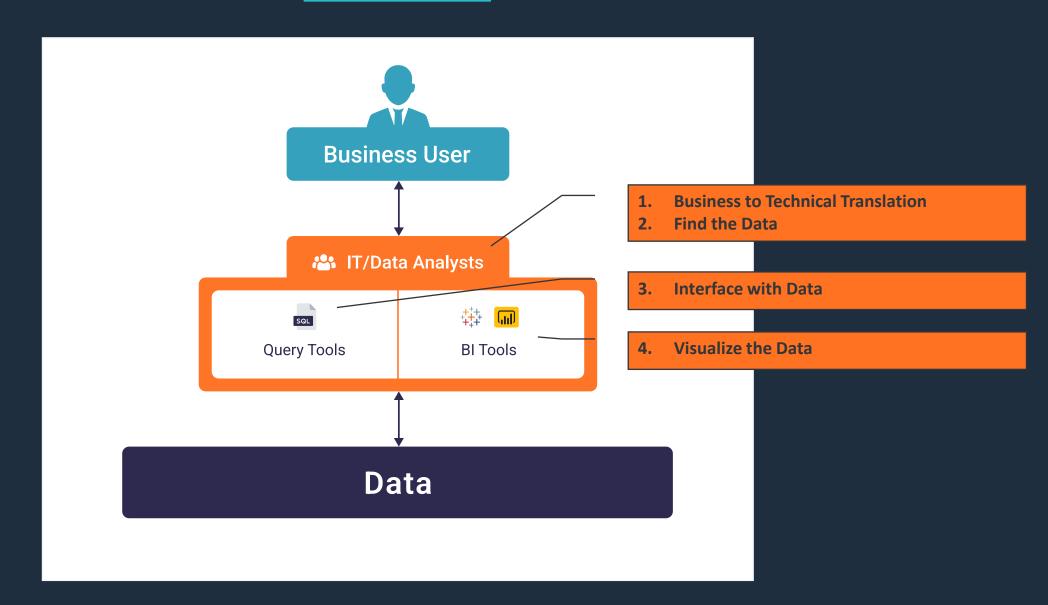
Illustration by Oval Edge

Enable business users to get data & insights

- 1. themselves
- 2. when they need it
- 3. without expecting them to become data / BI analysts

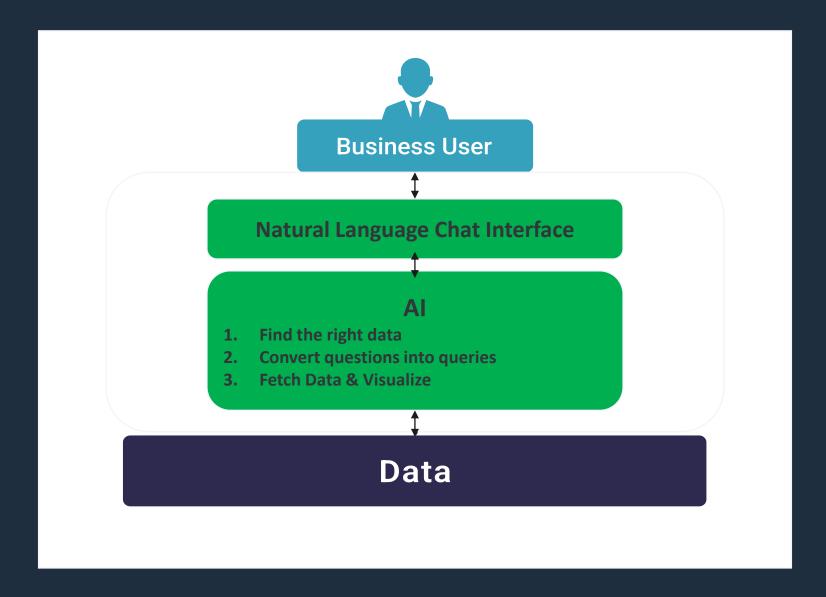












DvSum CADDI: Chat with your Data





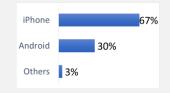
Simply ask questions in natural language

"How many of our Therapy patients use Android vs iPhone?"





Gets relevant results and insights from your in real-time



Solution

What's in the Box





User just needs a browser. No technical skills required.



Generative Al

Powerful Natural language processing and understanding. Uses the same Gen Al that powers **ChatGPT**



Data Intelligence

DvSum automatically creates technical and business understanding of your data



Data

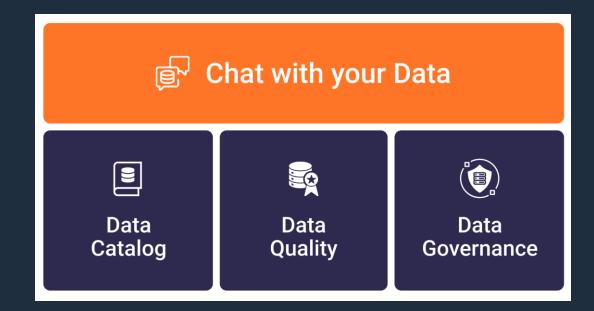
Query + Visualization

Results are accurate facts from your data fetched in real-time

Built on a strong data foundation

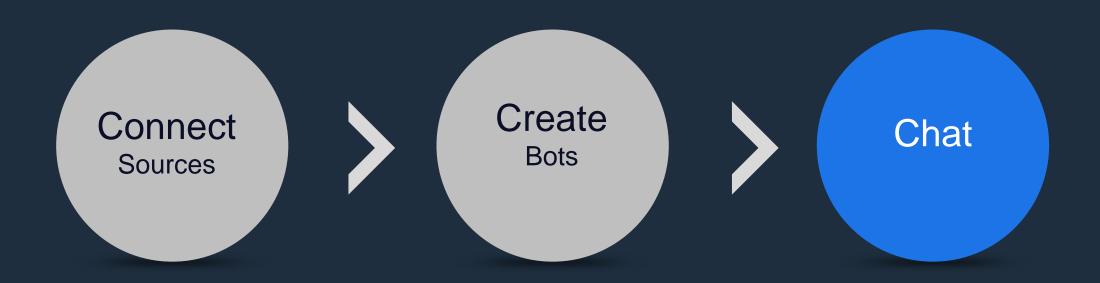


- 1. Data Catalog to find the right data
 - 1. Rich Technical Metadata
 - Business Glossary to translate Business Terminology to Data Definitions
- Data Governance Features to ensure Access
 & Privacy compliance
 - 1. Data Classification
 - 2. Masking, Access Policies



Easy Setup. Little to no training required





1. Connect your on-prem or cloud data sources.

2. Create a Bot defining the scope of data for Chat. Share access to users

3. Users start chatting with data. Feedback mechanism for continuous learning

< 1 week

Business Value





Empower Business Users

More data-driven decisions without complex Data Literacy programs



Reduce IT and Analytics BI Effort by ~60%

Off-load Self-Service BI, Ad-hoc analysis to the end users. Increase Analytics team productivity to focus on Advanced Analytics use-cases.



Faster Time to Business Decisions

Increase Business Agility by allowing decision-makers to find data and insights on-demand to drive quicker actions.



Unleash data insights dvsum.ai

THANK YOU

Aashish Singhvi

<u>aashish@dvsum.com</u>

(214) 912 0670

About DvSum



 Mission: Enable organizations to unleash data insights for maximum business performance

Based in Silicon Valley, California

Data Insights Platform

- CADDI Chat with your data
- Data Catalog
- Data Quality
- Data Governance



Our Customers: Companies behind famous brands



















Some things to think about.....,

- Is this a step forward or a just potential for serious misinterpretation?
- O Does it eliminate the need for data literacy, or just modify what use need to know?
- O Are there natural guardrails to help users and prevent misuse?
- Given that systems like OpenAI make things up that are completely fictitious, what prevents these systems from doing the same?