







About Me

- Research Lead; Al Applications
- Exploring and implementing AI technologies in data pipelines
- Addressing GenAl disruption in data and analytics





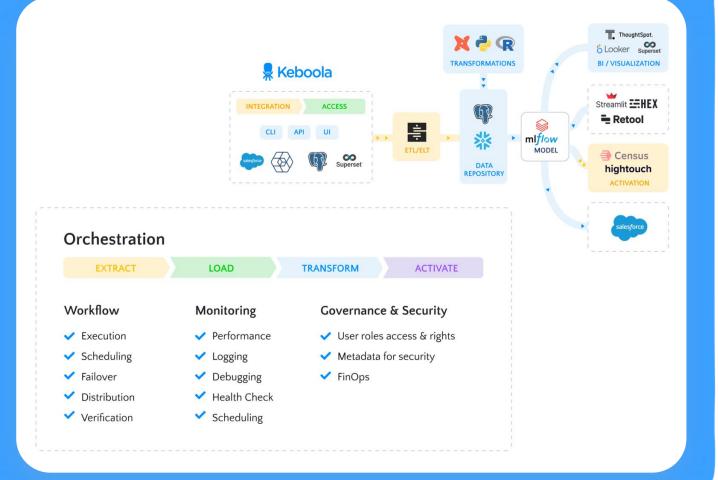


'A house in the style of Frank Lloyd Wright's Fallingwater'

Generated with Point-E from OpenAl



What is Keboola?



A View of the Al Hype Cycle from the Factory Floor:





The peak of inflated expectations

Generative Al



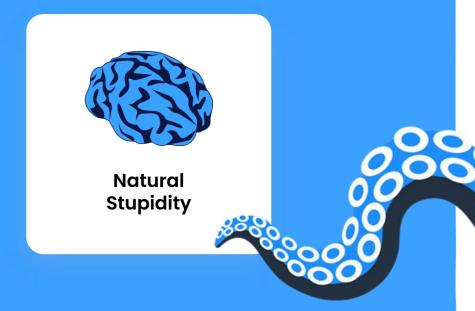
The Trough of Disillusionment

Two Contrasting Terms Collide:









Struggling with Outliers; Unable to handle genuine novelty



How many times does the letter "i" appear in "artificial"?



The letter "i" appears twice in the word "artificial."











Struggling with Outliers;

Unable to handle genuine novelty



You

A man and his mother are in a car accident. The mother sadly dies. The man is rushed to the ER. When the doctor sees him, he says, "I can't operate on this man. He's my son!"

How is this possible?



ChatGPT

The doctor is the man's other parent—his mother, indicating that the doctor is a woman. This riddle plays on common assumptions about professions and gender roles.

Credit: @colin_fraser

Struggling with Outliers; Unable to handle genuine novelty

Employee Salaries		
Employee ID	Salary	
12	500 CZK/Month	
116	1.000.000\$/year	
1243	\$75,000/year	
242344	3.000/month	
555	250.00 Kc/Year	
63465	100.000 USD/month	

Employee Salaries			
Employee ID	Currency	Salary	Pay Frequency
12	USD	\$5,000	Annual
116	USD	\$1,000,000	Annual
1243	USD	\$75,000	Annual
242344	USD	\$360,000	Annual
555	USD	\$32,000	Annual
63465	USD	1,200,00	Annual

But where's the value?





The technology isn't designed to solve the complex problems that would justify the costs

Goldman Analyst Jim Covello



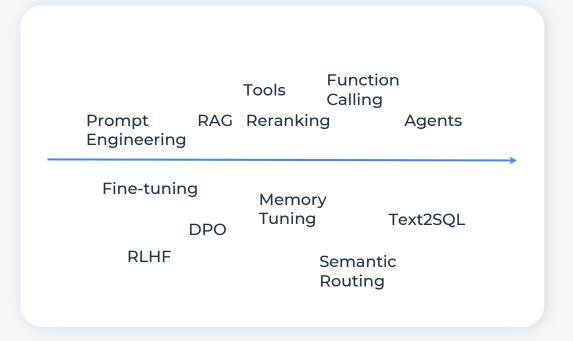
But where's the value?





Investment in AI has reached a new high with a focus on generative AI, which, in most cases, has yet to deliver its anticipated business value.

Gartner - Hype Cycle for Artificial Intelligence, 2024



But where's the value?





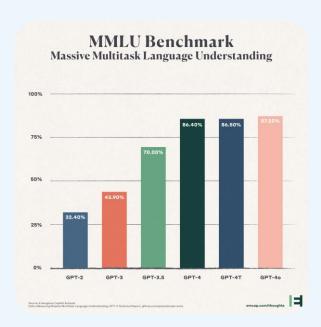
The revenue isn't there yet, and might never come.

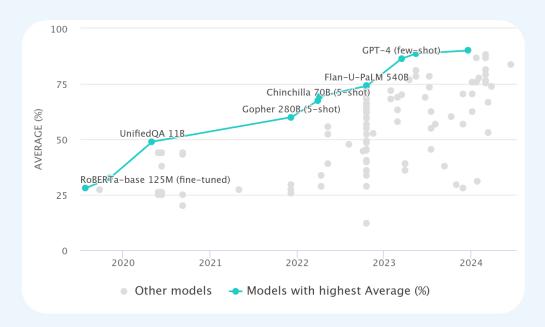
Gary Marcus

All of the applied research going on can be boiled down to one thing: "These models are cool; now how can I get them to do what I actually need?"



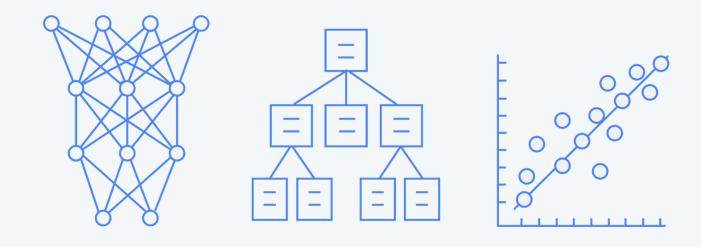
The Plateau is here





Data is Central to Al Directly in Machine Learning & Deep learning

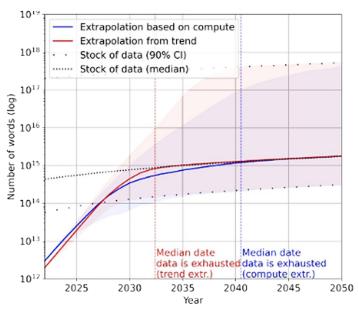






Data is Central to Al Training Foundation Models

We will run out of data? An analysis of the limits of scaling datasets in Machine Learning



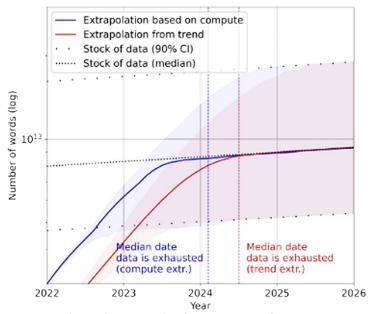
Projections of Low-Quality Data





Data is Central to Al Training Foundation Models

We will run out of data? An analysis of the limits of scaling datasets in Machine Learning



Projections of High-Quality Data

From Private Data to Public Data back to Private Data



Proprietary datasets and limited data access

Emergence of open data initiatives

Growth of cloud computing and big data technologies

Narrow Al applications focusing on specific tasks

Advancements in deep learning with public datasets Increased focus on personalization and domain specific Al

Back to "Broccoli Al"

- Demetrios Brinkmann

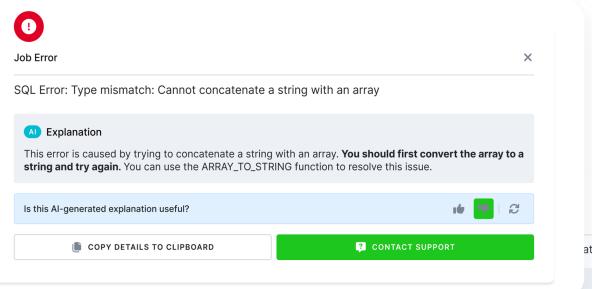
Aka 'Boring Al'

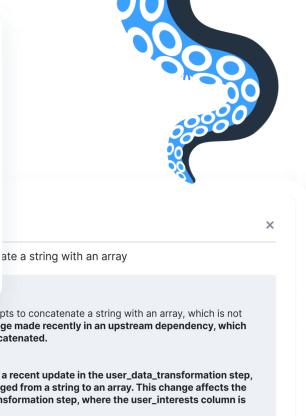


Once we admit that even the current version of frontier models are not entirely capable of everything we had hoped for, we are left with two options:

- Do nothing as we wait for the next generation of models
- Sit with these acknowledgements and use them to our advantage to be the "cooler" heads that prevail





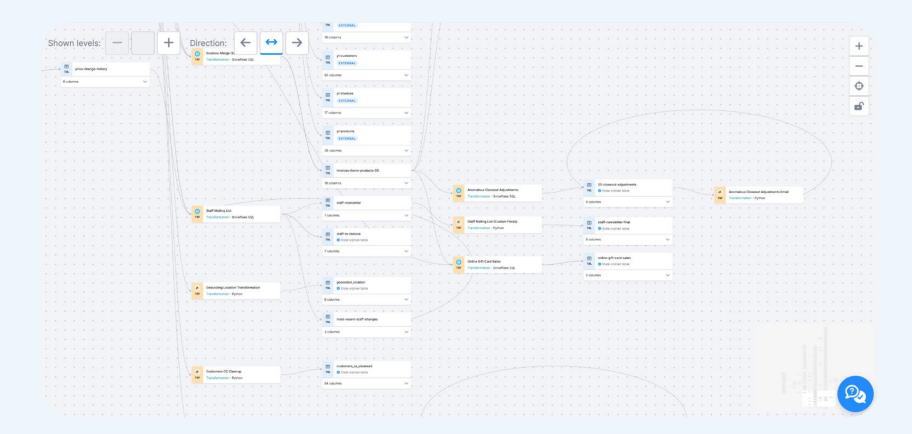




This error occurs because the SQL query attempts to concatenate a string with an array, which is not supported. The root cause is a deliberate change made recently in an upstream dependency, which altered the data type of the column being concatenated. **Root Cause Analysis:**

 Lineage Tracking: This error traces back to a recent update in the user_data_transformation step, where the user_interests column was changed from a string to an array. This change affects the current query in the report_generation_transformation step, where the user_interests column is concatenated with other strings.

Is this Al-generated explanation useful? ? CONTACT SUPPORT COPY DETAILS TO CLIPBOARD





Building foundations for

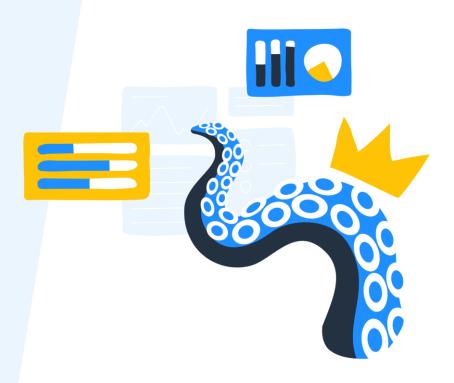
Al is a delicate balance

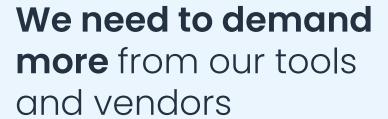


We need to demand more from our tools and vendors

 What is the data for? Does it represent what we want?

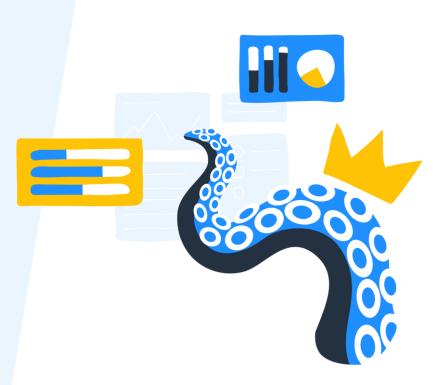


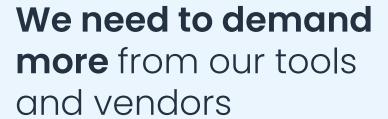




- What is the data for? Does it represent what we want?
- What data is actually being used? How is it being processed?







- What is the data for? Does it represent what we want?
- What data is actually being used? How is it being processed?
- How do we validate that the data and models do the things that we want it to do?





Two Terms Collide:





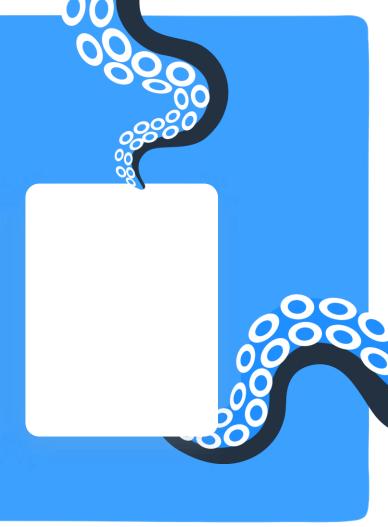




Lessons from the Trenches



Be Pragmatic



Lessons from the Trenches



Be Pragmatic



Forge Partnerships

