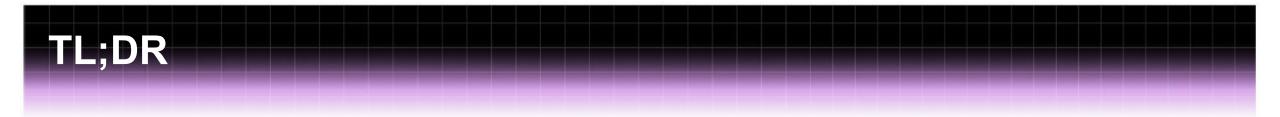
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The Bottomline on AI in Hiring: Is it Effective, Legal, and Fair?

Eric Sydell, Ph.D.

July 25, 2023





Maybe



Who am I? What is Vero AI?

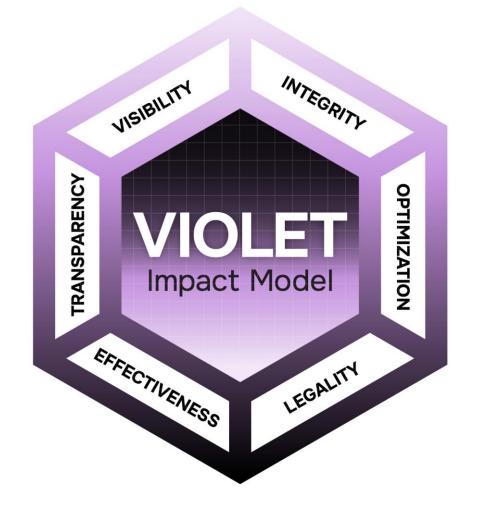
Eric Sydell

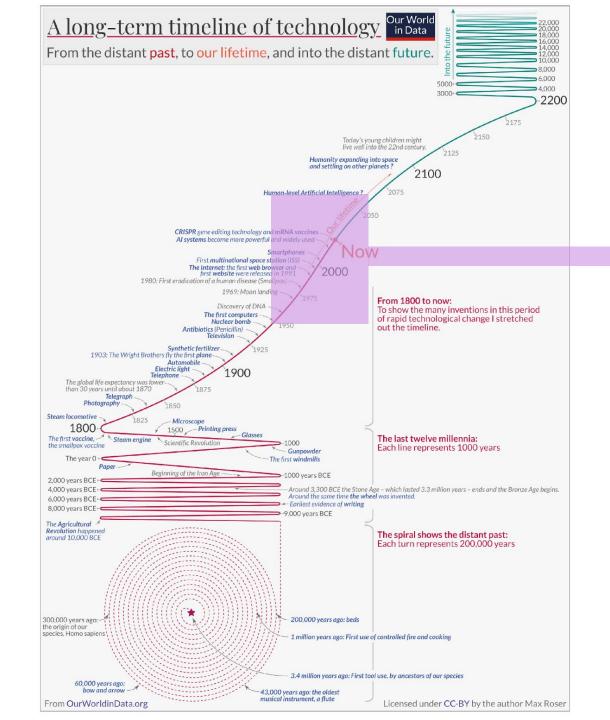
 IO psychologist, cofounder of Shaker/Modern Hire and Vero AI

Vero Al

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- New firm designed to objectively evaluate algorithms
- Goal is to deploy scaled scientific solutions
- Working to get beyond hype, to show objective truth





In the 4 million years covered by this timeline, our lives are in the steepest part.

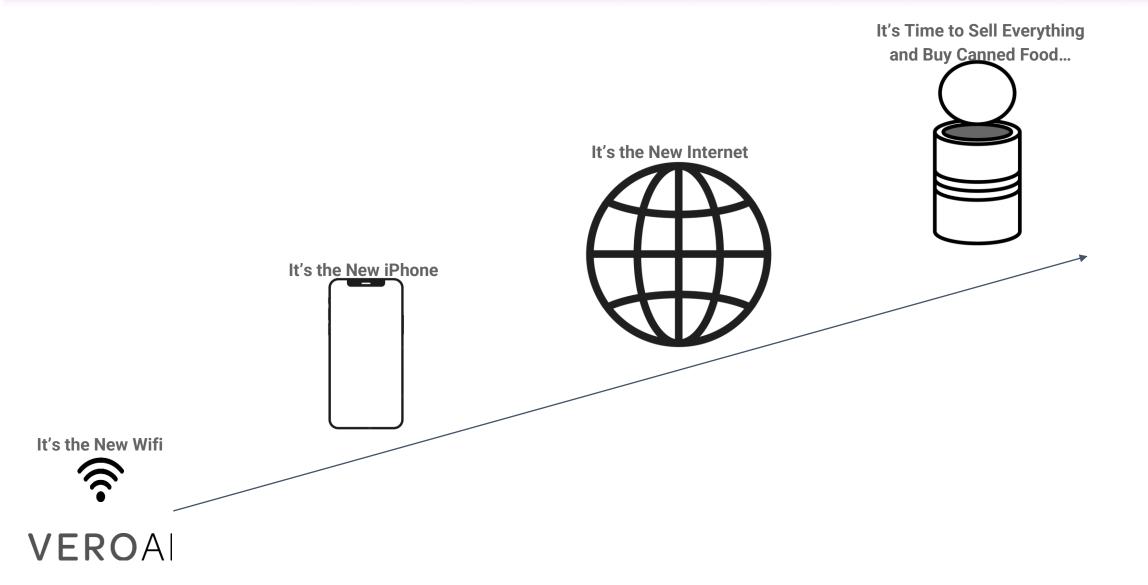
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© 2023 Vero Al 4

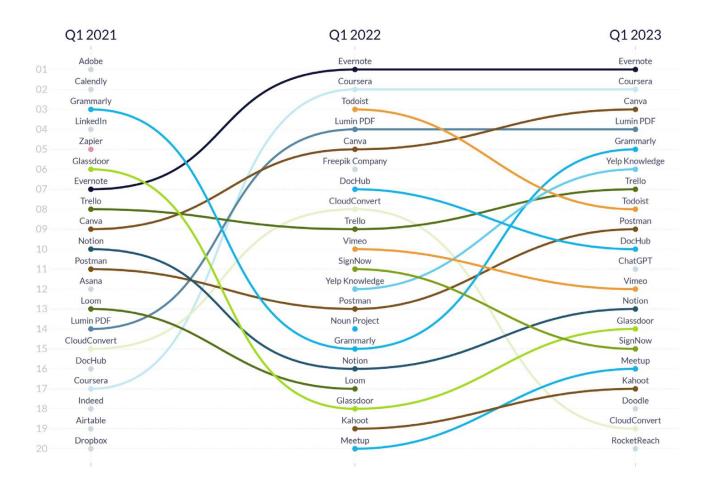
Explosive Growth of Generative Al



How Big a Change is Gen Al Really?



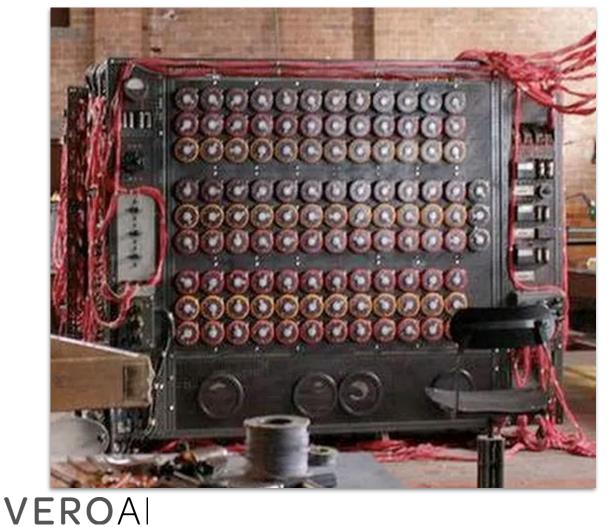
Who Are the Users of Gen AI Today and What are They Doing?



'Shadow IT' - the tools employees use without IT's blessing because it makes their jobs easier

A Small History of Big Technological Moments

1940's Military Computers (100's)



1960's Enterprise Mainframes (1,000s)



A Small History of Big Technological Moments Continued...

1980's Small Business Computers (Millions)

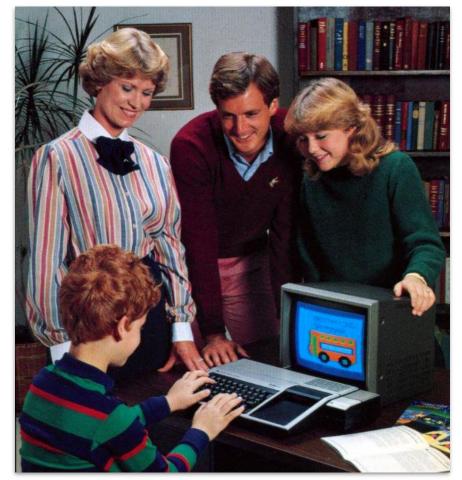


SDS-100 THE ULTIMATE SMALL BUSINESS COMPUTER

The SDB-100 is pure computing power. . . designed at strictly for small business and professional sponds give we mission the strict of the strict of the performance through standard software programs. The system is packaged in a totally shielded single case, housing two full-size dual-sided floppy disk drives, a full sized 12" video monitor, the keybband drives, a full sized 12" video monitor, the keybband Access Memory (Expandable to 54K on baard € 1,025,024 Bytes of on line disk storage € IBM 3740 Compatible 12-inch Video monitor reading 80 characters by 24 lines • Numeric accounting and statistical keybaard • Full cursor control keys Parallel and Serial (RS-232) input and output ports © C/PM Operating System by Digital Research of Pacific Grove, California). The DSS-100 is available through your local SD Dealer. The price of the BDS-100 is \$5,785.00 F08 Deales. To ass. For Information concerning the log 27-3460 or 800-527-2304.

SD Systems CIRCLE INQUIRY NO. 45

1990's Home Computers (Hundreds of Millions)



Now? The First Users are Individuals...

2000's Smartphones (Billions)



2020's ChatGPT (A Lot)



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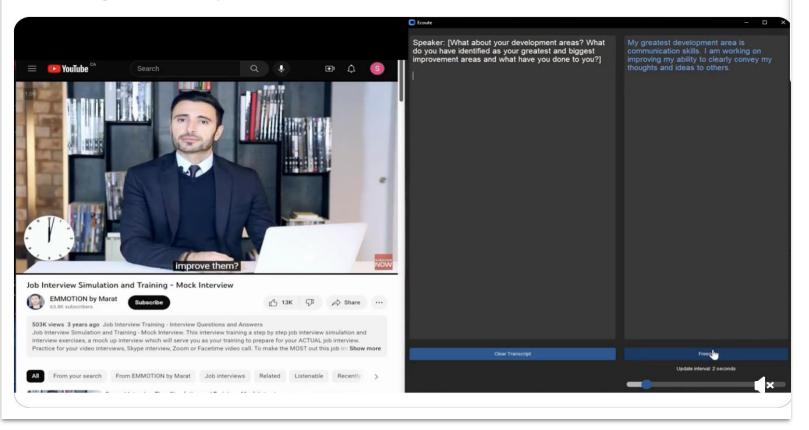
Here Comes the Point: We have Reached the Ohno Moment...



r/ChatGPT • 2 mo. ago by freegold4me



I Built an GPT4-Powered Live Transcription Tool That Helps You Nail Job Interviews by Generating Perfect Responses in Real-Time!



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Generative AI Explains Itself

what are generative ai examples? In real life Foundation models Images News Videos Books Maps Shoppina Generative AI is experimental. Info quality may vary. <> Here are some examples of generative AI: • ChatGPT, Bard, DALL-E, Midjourney, and DeepMind: Popular examples of generative AI • MusicLM: Google's unreleased AI text-to-music generator Generative AI: How It Works. • GPT, Jasper, Al-Writer, and Lex: Text generation tools History, and... • Stable Diffusion: Image generation tool 🎝 Investopedia Variational Autoencoder model: Can create artificial financial data to train machine learning models for financial analysis • GPT-4: The most recent version of OpenAI's Large Language Model (LLM) • 3D printers: Can be built with computer-controlled systems using generative AI Generative AI can produce outputs in the same medium in which it is prompted, or in a different medium from the given prompt. For example, you can enter a prompt into a chatbot and the algorithm will give you brand-new content based on that prompt.

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Generative AI

- When very large changes arrive we try to use metaphors for what has come before to understand them.
- Often these metaphors limit and shape our thinking.
- For example, 'computers' were called that because of the job they were initially replacing



Photo from National Photo Company Collection, Idea from Boaz Barak

Metaphors for Al

Stochastic Parrots



A Blurry JPEG



The New McKinsey



A New Alien Specie...

Killer Robots



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What People Think AI Is





What is AI?



"A.I. is the science of how to get machines to do the things they do in the movies."

-Astro Teller, CEO of X



Some Opinions on Al

"I've always thought of A.I. as the most profound technology humanity is working on—more profound than fire or electricity or anything that we've done in the past." -Sundar Pichai

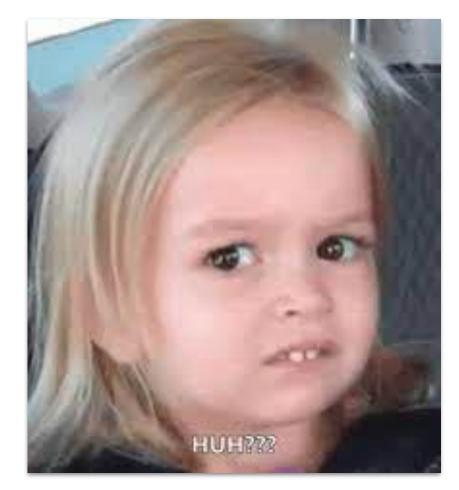
"Artificial intelligence is the future...for all humankind. It comes with colossal opportunities, but also threats that are difficult to predict. Whoever becomes the leader in this sphere will become the ruler of the world." -Vladimir Putin

Techno-discombobulation

- What exactly is AI?
- Can algorithms be powerful without being AI?
- Should I use AI in my business?
- How do I know if AI is working?
- How do I know if it is biased?
- Is it legal?

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- · How do candidates feel about it?
- How do I begin?
- Where am I???



Wrong Answers



Marketing vs Science

Not all marketing is wrong or bullsh!t.

But you should assume it is until you verify its accuracy.





Innovation Financing

How are innovations brought to market in the US today?

- Two main paths:
 - Funded startups
 - Huge tech companies
- Funded startups require hockey stick growth plans
- Huge tech companies are beholden to shareholders who expect returns



Generative AI Strengths and Limitations

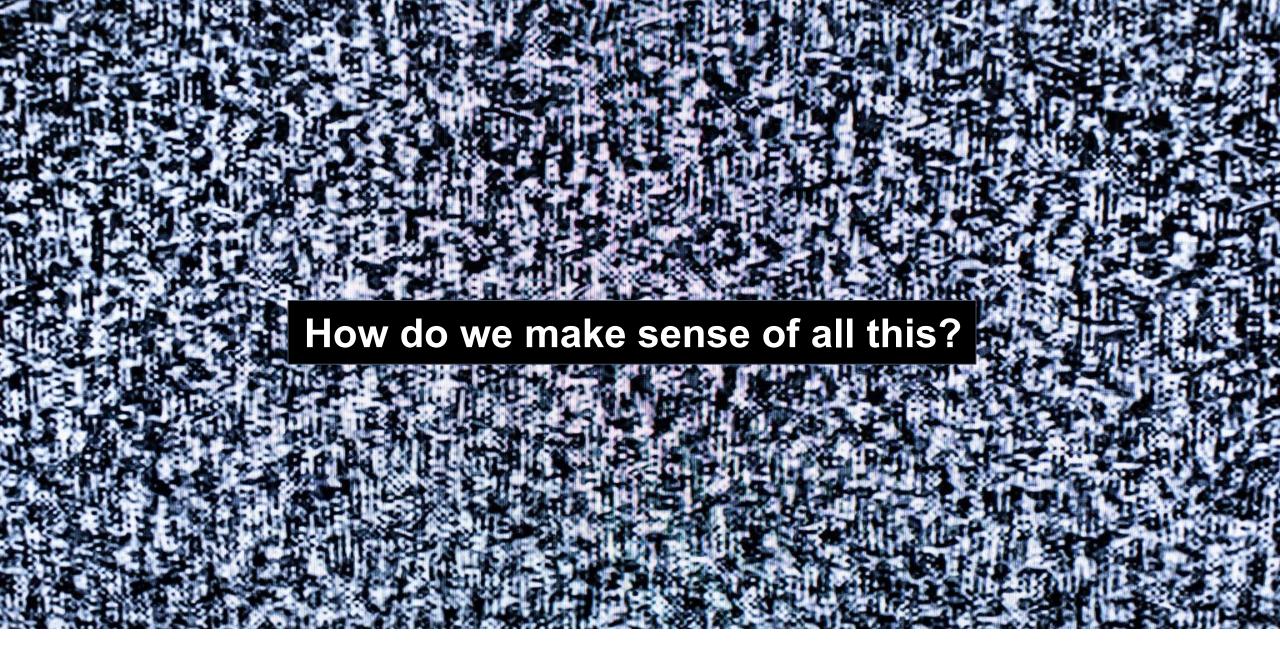
Strengths	Limitations
New, human-like output	Accuracy
Ability to learn quickly	Bias
Massive integration across modalities	Resource intensive
Fast technology growth/adoption	Ethical concerns
	Creativity limit



Central Questions to Consider

- What is AI? Generative AI?
- How can it be leveraged today? Tomorrow?
- How could it be used in our business (responsibly, effectively)?
- What would it take for us to use it?





Our Field Knows The Answer!

- It's the scientific method!
- Uniform Guidelines, SIOP
 Principles, etc.
- Your skills and perspective are extremely valuable in this problem space!



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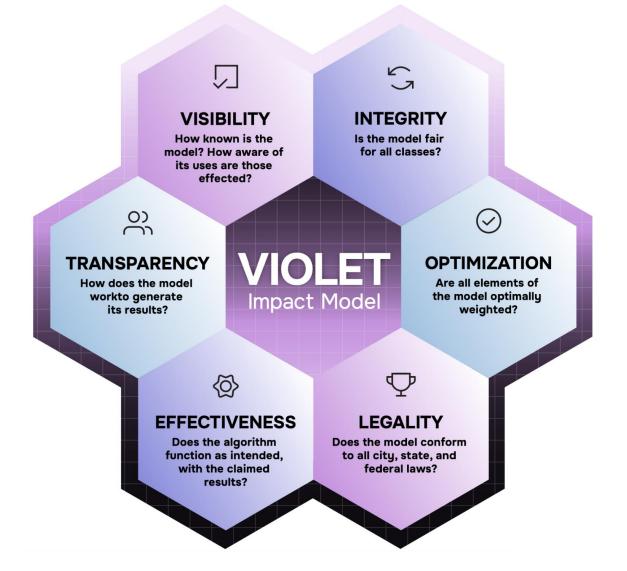
How to Approach Al

- 1. Understand what it can do and validate that it does it.
- 2. Monitor adverse impact regularly.
- 3. Maintain awareness of existing and emerging AI legislation.
- 4. Store data carefully and in alignment with agreements and laws.
- 5. Use your understanding of data, science, validation, and employment law to educate others.
- 6. And above all...



Be a Guardian of Humanity

The VIOLET Impact Model



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Example VIOLET Report

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VIOLET Impact Report

VEROAL

Summary report on ACME, Inc's use of an AI-powered algorithm to score candidate applications in their hiring process.

Element	Results	Score
Visibility	 Highs: Clear candidate messaging present with opt-out option; algorithm use is apparent to both candidates and recruiters interacting with the hiring software. Lows: Approximately 40% of higher level talent acquisition leaders are not aware of the use of algorithms; unclear to candidates what happens to their applications if they opt out. Actions: Educate talent leaders on the use of algorithms and their risks and benefits; clarify candidate messaging to include statement on opt out ramifications. 	4
ු Integrity	 Highs: Available data showed that the size of protected class differences was practically insignificant, though some large sample comparisons resulted in significant differences. Lows: Missing data prevented the calculation of differences for American Indians as well as several intersectional groups. Actions: Build process to monitor differences continually; investigate alternate sources of data on low volume protected classes and intersectional groups. 	3
⊘ Optimization	 Highs: Algorithm runs optimally in training dataset; comprehensive set of parameters taken into account during development. Lows: Significant loss of predictive power in various geographies; wide fluctuation in group differences across regions. Actions: Retrain model using multiple outcome optimization or similar techniques; investigate alternate scoring that could reduce variation in group differences. 	3

Decoding Talent

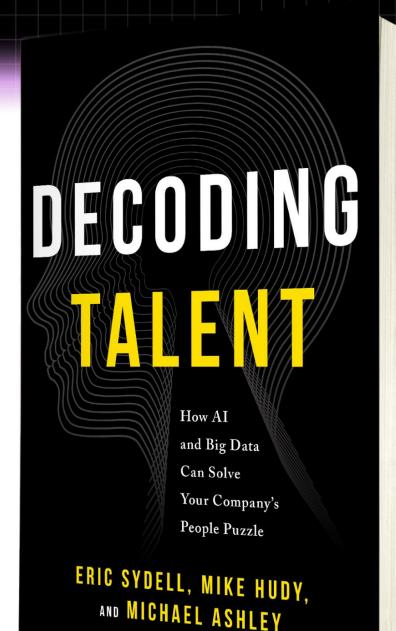
- Presenting a comprehensive vision of the future of talent management in the age of big data and AI
- Introducing a talent analytics maturity model to help truly decode talent organization wide
- Released in February, 2022



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A clear and powerful plan for how to leverage tech, data, and AI to finally and truly revolutionize HR and talent management

-Jim Livingston, chief people officer, Rock Central



Talent Analytics Maturity Model

Level 5: Decoded Talent/Automated Analytics

Ubiquitous human data collection including pre- and post-hire data; automatic Al-driven analytics

Level 4: Predictive Analytics

Integration of outcome data; predictive modeling; differential prediction Reports can drive strategy, but analytics process is primarily manual

Level 3: Benchmarks & Normative Analytics

Comparison of results across groups, both internally and externally Reports used for decision making and issue identification

Level 2: Coordinated Reporting

Consistent, consolidated reporting using dashboards Reports are tactical; used primarily for operations management

Level 1: Basic Operational Reporting

Operational reporting for measurement of efficiency, compliance, and EEO needs Dependent on ad-hoc processes; uncoordinated across units; spreadsheet-based



The Decoding Talent Model





AI is the (Utopian or Dystopian?) Future

It is up to us to decide!



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