




Call Under Review – Ethical Considerations of AI

 BlastPoint
Modern Artificial Intelligence
Ethics & Safety Overview
November 2024



We are living through a
Technology Explosion



Call Under Review – Ethical Considerations of AI

AI will impact and challenge humanity for the rest of history.

- **Short Term:** Job Displacement, Disinformation
- **Medium Term:** End of Capitalism, Human Fulfillment
- **Long Term:** Machine Rights, End of Human Supremacy
- **Existential:** What are we? Why are we here?



$P = 1/1000$
 $= 0.1\%$

Google / Stanford University



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Tomer Borenstein



Rachael Borenstein's Husband



Co-Founder & CTO @ BlastPoint AI



Grew up in Israel & Thailand



BS, Comp Eng. & MS, ML/AI @ CMU

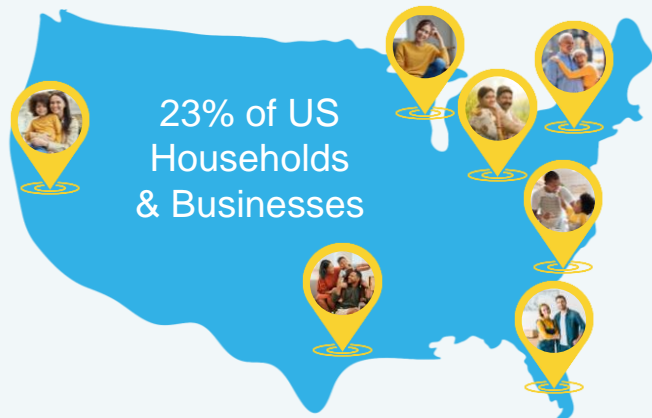


GYF Customer



**BlastPoint is a
Customer AI
Platform for Highly
Regulated
Industries**

Carnegie
Mellon
University



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Some **Key**
Definitions, First.

Analytics



Analytics

Anything we do with data: collecting it, visualizing it, dashboarding it, modeling it, forecasting it, summarizing it, etc...

e.g. Excel, Power BI

Some **Key**
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Analytics

"AI"



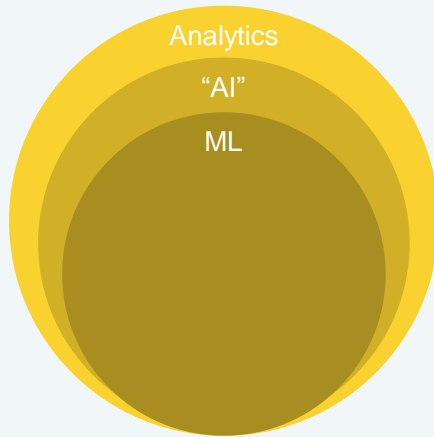
"A.I." (Artificial Intelligence)

~~Doesn't mean anything anymore.~~

Fine: software that performs tasks that would traditionally require human intelligence.

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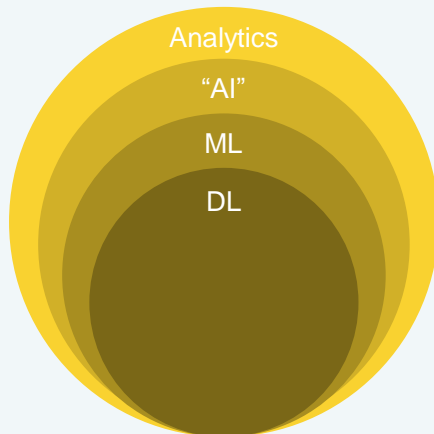


Machine Learning

Algorithms that become better at performing certain tasks the more data they are exposed to.

e.g. Linear Regression, OCR, Fraud Detection, Weather Forecasting, Facial Recognition, and so much more...

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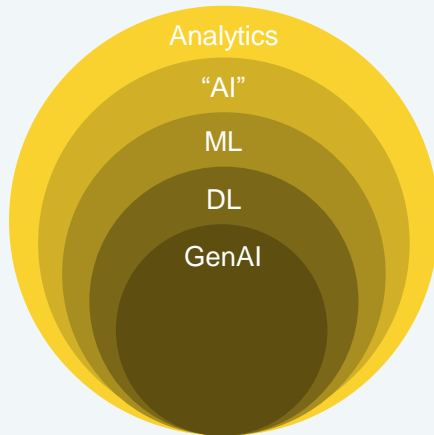
Deep Learning

A specific class of Machine Learning algorithms called Neural Networks, inspired by (but are much more simplified than) human brains.

e.g. Healthcare Diagnostics, Natural Speech Recognition & Synthesis, Image Recognition, and more...

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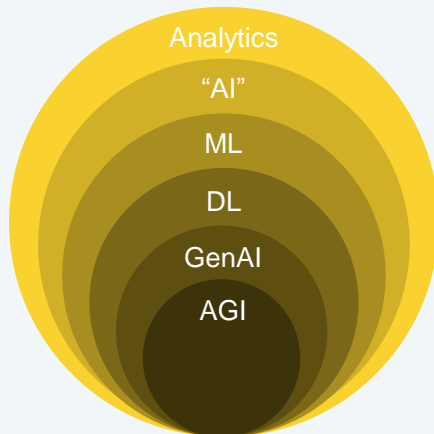


Generative AI

Sparked from the 2018 paper [“Attention Is All You Need”](#), a new class of “Transformer-Based” Neural Networks that can generate text, images, sound, and videos.

e.g. ChatGPT, Claude, Stable Diffusion, Midjourney, NotebookLM

Some **Key**
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Artificial General Intelligence

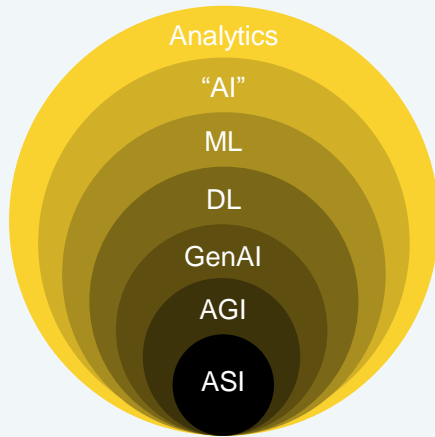
Likely-“agentic” AI systems that can perform any task as well as a human could.

AGI is still hypothetical, but for agentic AI examples:

- OpenAI’s o1 model
- Anthropic’s Claude Computer Use

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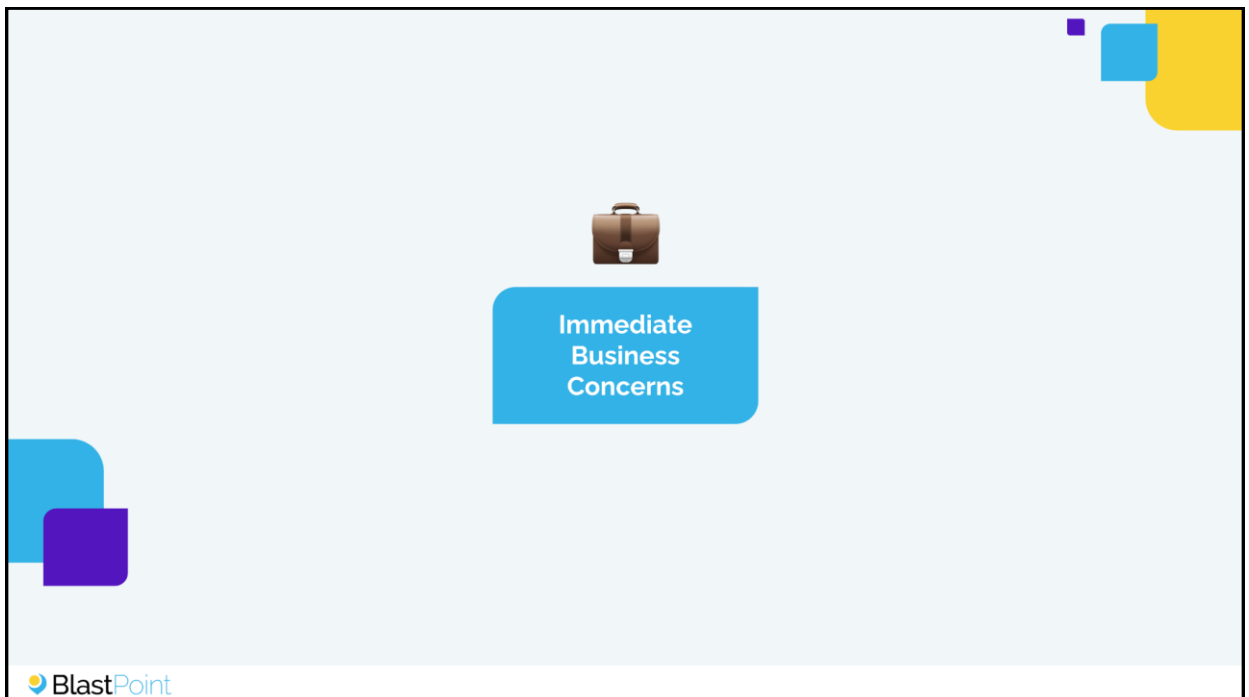
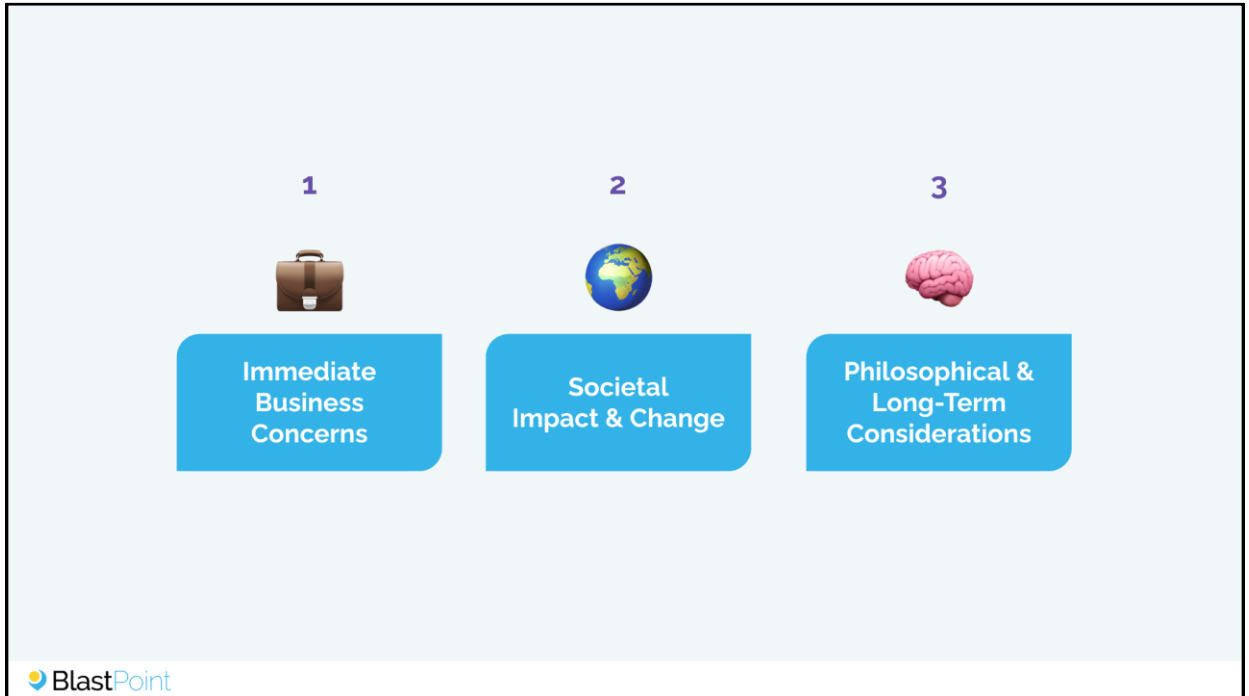


Artificial Super Intelligence

AI systems that are smarter than humans, and can recursively improve themselves, potentially resulting in "The Singularity".



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Data Privacy in GenAI Systems

As Business Consumers

- We often deal with **sensitive data at work**.
- Have **clear policies** about what employees **can/can't input into AI** systems.
- Use AI tools with **licenses that prohibit from training on your data**, or...
- Use **open source AI tools** hosted in your own environment.

Data Privacy in GenAI Systems

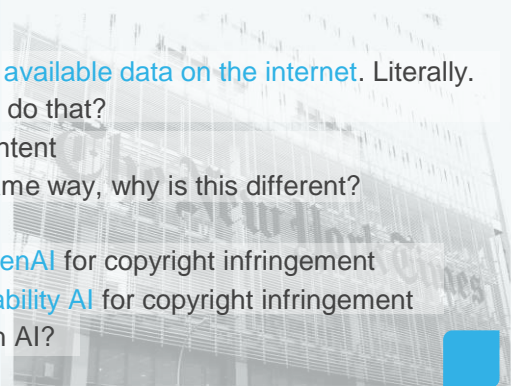
As Content Creators

- GenAI tools are often **trained on all available data on the internet**. Literally.
- Should AI companies be allowed to do that?
 - **Against:** no, that's not their content
 - **For:** well, humans learn the same way, why is this different?
- In the news:
 - The **New York Times sues OpenAI** for copyright infringement
 - **Artists sue Midjourney and Stability AI** for copyright infringement
- **Do you own what you generate** with AI?

The Times Sues OpenAI and Microsoft Over A.I. Use of Copyrighted Work

Millions of articles from The New York Times were used to train chatbots that now compete with it, the lawsuit said.

Share full article



A lawsuit by The New York Times could test the emerging legal contours of generative A.I. technologies. Sasha Maslov for The New York Times

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Accountability & Fairness in AI/ML

Auditability & Explainability

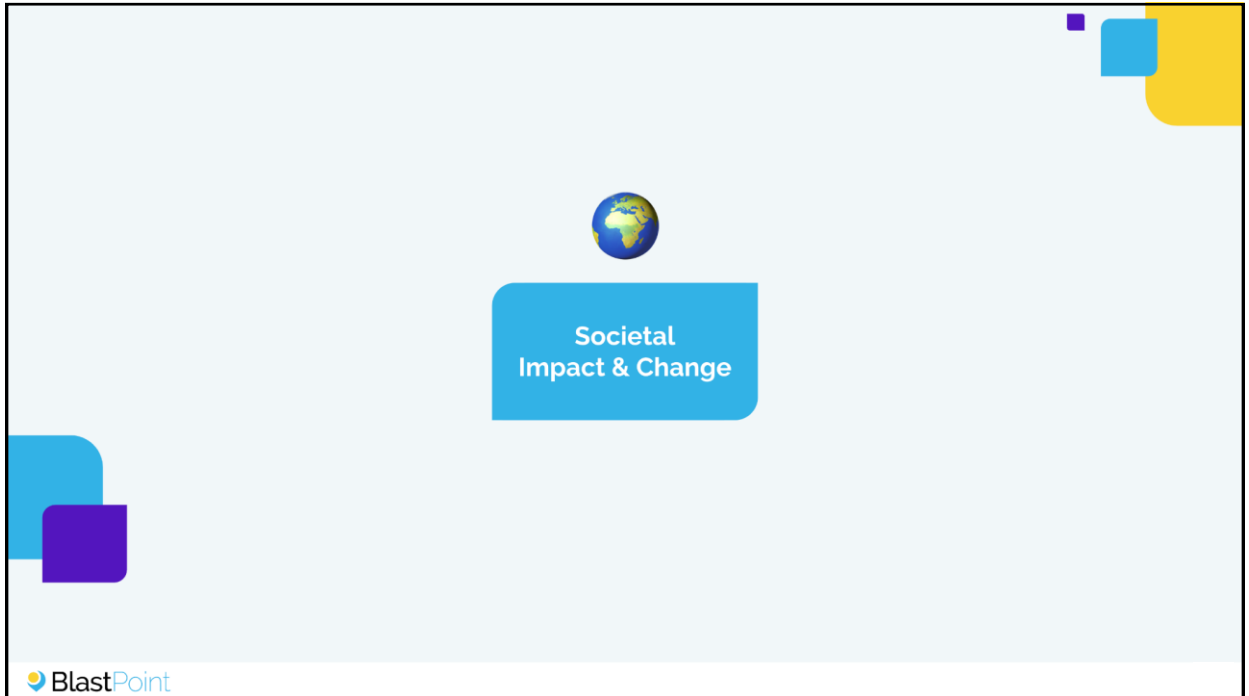
- You should understand **how and why your models make decisions** (esp. in regulated environments).
- **Some models have better explainability than others**, choose wisely.
 - Neural Networks: powerful, but extremely poor explainability
 - Linear Regression: limited, but very good explainability

Accountability & Fairness in AI/ML

Bias & Fairness

- Our world is biased; so, naturally, **any data about the world is also biased**.
- **AI/ML can unintentionally propagate bias** (e.g. EV adoption).
- **Choose inputs to your models carefully**, consider excluding sensitive attributes.
- Have **post-training checks-and-balances** on sensitive attributes.
- Ensure your **training data is representative of your population** as much as possible.
- As we give AI more decision-making power, **who is accountable?** (e.g. self-driving cars)

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Job Displacement Because of AI

“They Say This About Every New Tech”

- Automated Textile Equipment
- The Calculator
- The Camera
- Photoshop

But AI Could Be Different...

- If we stopped here – maybe not, but...
- If we achieve AGI/ASI, **human cognition itself could be replaced.**
- **If you could** replace all of your employees with AI, **would you? Should you?**

The slide features a background illustration of a factory interior with a worker operating a large textile machine. The text is overlaid on a semi-transparent white box.

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Job Displacement Because of AI

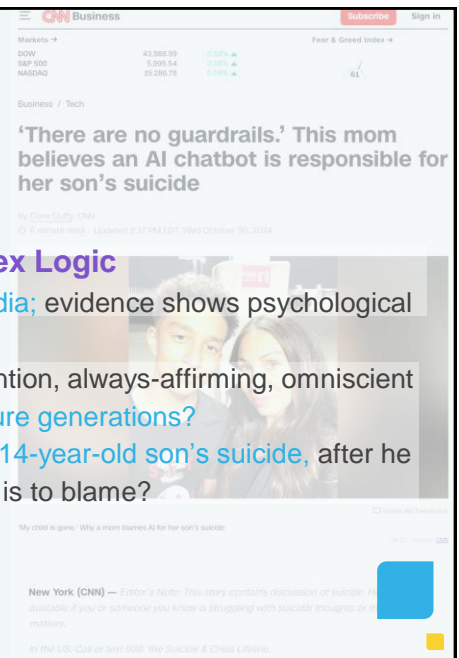
Medium-Long Term Societal Restructuring

- The [End of Capitalism?](#)
- What will humans do with our time if we don't have to work? How will we achieve [fulfillment](#)?
- Will we achieve a [post-scarcity future](#) or a [cyberpunk](#) one where corporations control all AI resources and inequality is rampant?

Psychological & Societal Impacts of AI Relationships

AI is Better at Socializing than Complex Logic

- [GenZ](#) grew up with [ubiquitous social media](#); evidence shows psychological harm for some users.
- How will having “always on”, infinite-attention, always-affirming, omniscient [AI friends](#) impact the development of future generations?
- In the news: [Mom sues Character.AI for 14-year-old son's suicide](#), after he fell in-love with roleplaying chatbot. Who is to blame?

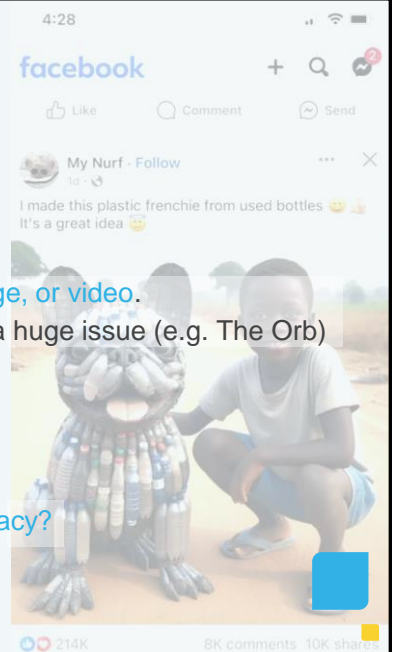


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Information Integrity in the Era of AI

Welcome to the Post-Truth Age!

- Soon, you won't be able to [trust any text, image, or video](#).
- In fact, [Human Verification](#) will likely become a huge issue (e.g. The Orb)
- In the news:
 - Popular fake Facebook posts
 - Election Deepfakes
 - The Dead Internet Theory
- What can we do besides focus on [Media Literacy](#)?



Philosophical &
Long-Term
Considerations

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Philosophical & Long-Term Considerations

Consciousness & Machine Rights

- The **Turing Test** used to be the gold standard for “conscious AI”, but we’ve flown past it so fast without noticing.
- The debate about what consciousness is may never be resolved, but if you have an AI system that is **Agentic & Multi-modal**, has **long-term memory**, re-trains itself on its own “**experience**”, how is it different from any other conscious being?
- “**AI with Rights**” will likely happen first (and soon) via **Incorporation**.

Philosophical & Long-Term Considerations

End of Human Supremacy

- **AI Alignment**: building AGI & ASI systems that are aligned with human values (how can AI be aligned with humans, if humans aren’t aligned?)
- If not friendly, these AI systems could pose serious **Extinction Risk**.
- **Should** humans work towards creating something that could become smarter than them?
- **Race to ASI**: could any world power afford to not be the first to achieve ASI?

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Thanks for Listening!



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