









Example: Machine Prediction of Likely Variants of Interest







Human Skills are Also Often Unexplainable

Aside from general physical fitness and experience, why is Michael Jordan a better basketball player than I could ever be?

Why does Yo-Yo Ma's ability with the cello exceed anything I could hope to achieve, no matter how hard I try?

I'm not being pessimistic here—humans have variations in innate skills.

I like to think I'm a better engineer than either of them, but I couldn't explain why.







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Only Government Can Limit Companies

Bottom line: ethical business behavior ° defined by law and policy, ° interpreted by judiciary, and ° enforced by government.

In a democracy, **all** of these **start with you**.



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Is Older "Smart" Technology So Different?

What if the element at fault was instead the Anti-lock Braking System?

Does responsibility shift?

Does the line shift?

Because ML is more complex than ABS?

Legal Decisions Made by Humans

ML failures will lead to both criminal cases and civil litigation.

In many such cases, ° juries make decisions. ^o Jurors are **unlikely to have** much technology **expertise**.

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Are humans capable of avoiding the assumption that technology is unbiased and infallible, especially with (one side's) lawyers arguing that such is the case?



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Humans Avoid Conflict with Technology

Example (true story): day-care billing (just software—not even AI!)

Price per day: \$100.00 Price for two days: \$200.05

Whv? "That's what the computer says.



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New Technologies Unlikely to be Understood

Another technology (ML-based): face recognition Phones allow it now for unlocking.



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Success rate? 70% maybe? What if someone is wearing a wearing a mask? What if they have a bruise?

Easy to Misuse and Misrepresent Results from ML

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Legislators are Criminal? Well...









Net Neutrality Akin to Freedom of Speech?

These questions are central to the issue of "**net neutrality**" that has been a topic of recent political discussions.

Do customers have the right to find content and use services that suit their tastes?

What does "free speech" mean if a small number of large companies control what can be "heard" on the Internet?



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The same questions might be asked about other services, too.

Consider the last question ° in terms of search engines: ° is a search engine allowed to sell your ability to find URLs?

In other words, is it acceptable to put paid advertisements at the top of a search response? As the only response?

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