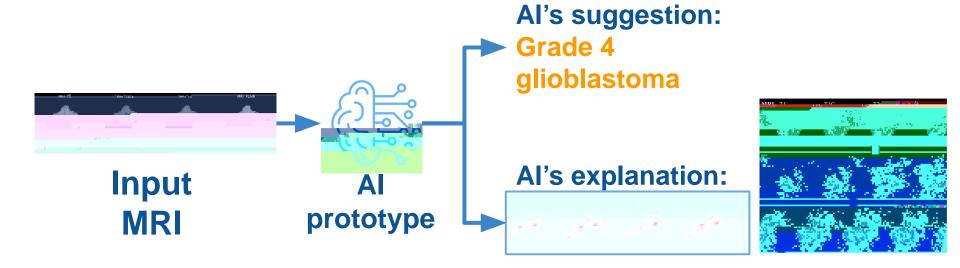
Al explanations can easily manipulate user's trust [1]

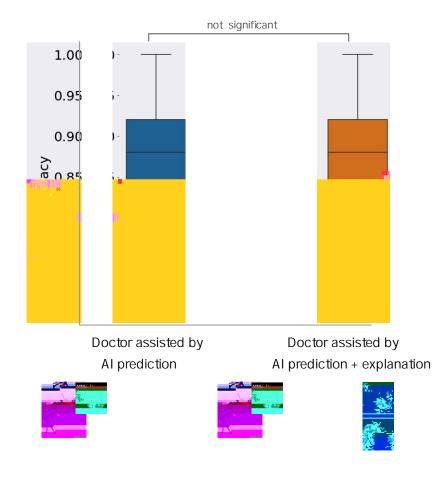
Explanations cannot help users detect potential model biases [2]

Explanations worsen physicians' task performance [3]

	<ul> <li>Weight Brenden, E. (2000) Sec.</li> <li>Landel and Sector an</li></ul>

How can we make the AI explanations work as they are supposed to





## Quantitative results

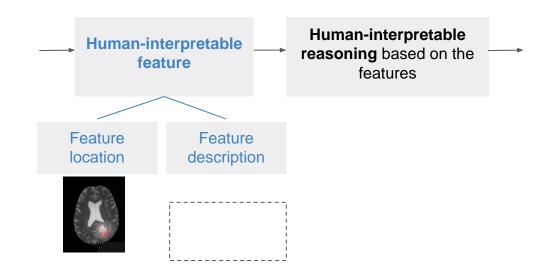
AI explanations are

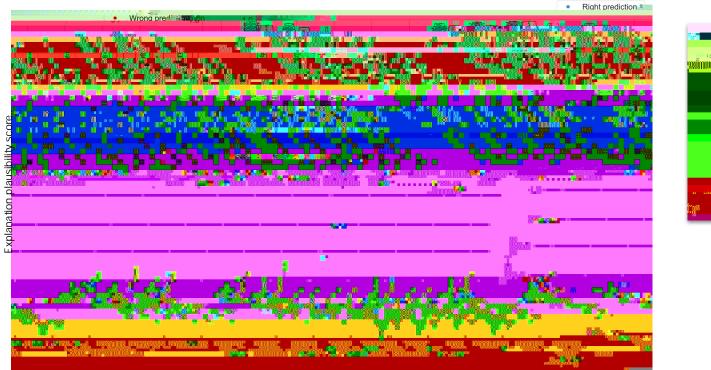
to improve doctors' task performance



What (explanation) we get currently, when a radiologist read it, they **point out the significant features**, and then they **integrate those knowledge**, and say, to my best guess, this is a glioblastoma. And I have the same expectations of AI (explanation).

– Neurosurgeon #3







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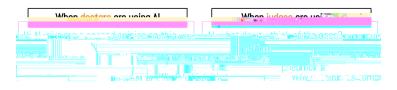


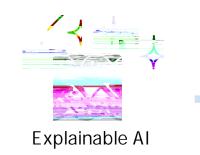


How technologies are ignoring values from underrepresented groups and how we combat it

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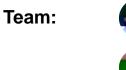
XAI ignores end-users by:	What is it?	Why is it harmful?	How we combat it?	
1. Not aligning with <b>human reasoning</b> and interpretation patterns with explanation	Explanations have incomplete feature description only feature localization or text description, not both	Users can hardly incorporate evidence from explanations into their decision process	Design new XAI techniques to provide explanation with complete feature description [Work in progress]	
2. Not following <b>human</b> <b>communication norms</b> with explanations	Explanations are created to be plausible <i>regardless of Al decision correctness</i>	Users in critical tasks can have worse performance that harms people's life, money, etc.	Reveal to the XAI community such ill practice and its harmfulness [1]	
3. Not being designed to fulfill users' <b>utility of explanation</b> XAI algorithms are not designed for its utility to end-users, e.g., verifying AI decisions, ensuring AI		Cannot effectively help uses to solve their problems when seeking explanations	Propose user-centered XAI evaluation objectives and metrics [2,3]	
	safety, and improving human-AI performance	Explainability needs to on end-user-centered	b be carefully crafted based requirements.	





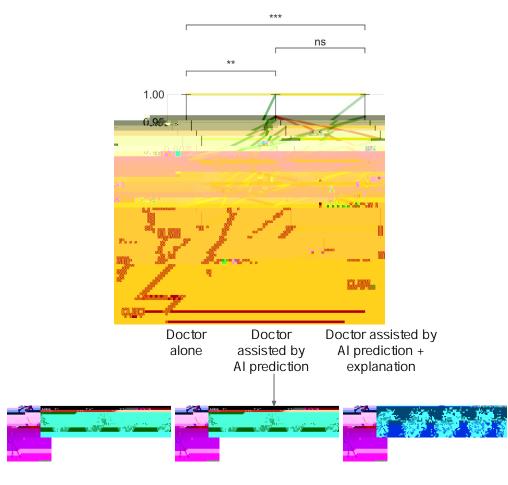


How technologies are ignoring values from underrepresented groups and how we combat it

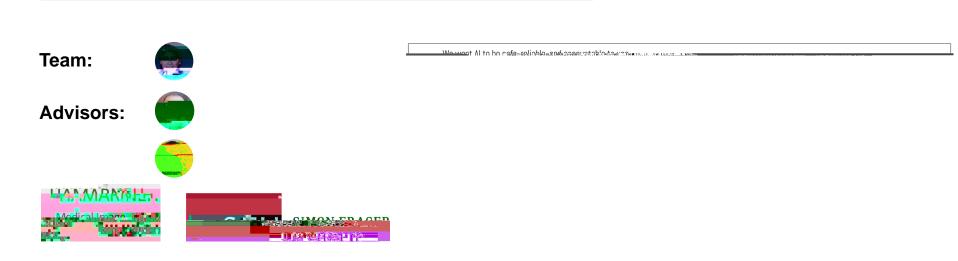








## How technologies are ignoring values from underrepresented groups and how we combat it



## 11

Algorithms are designed by people, and

. It's rarely

intentional—but this doesn't mean we should let data scientists o the hook. It means we should be critical about and vigilant for the things we know can go wrong. If we assume discrimination is the default, then we can design systems that work toward notions of equality. [1]

