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Devising ML Metrics

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that correlate with progress on the problems we care about. Formalizing these metrics into benchmarks will be crucial to capturing the attention of

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Al Safety, Ethics, and Society

Representation
Engineering: a New Way of
Understanding Models

innerently located on the edge of chaos, since their design requires the researcher to effectively concretize a nebulous notion into a single number.

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Clear Evaluation

Perhaps the most important quality of a benchmark is having clear evaluation. To

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loss of 1.8 mean?"), and recognizing that there is substantial implicit wisdom in precedents is necessary for creating benchmarks. Non-imitative tendencies (similarly, overconfidence in the reach of one's own intellect)

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About Our work ∨ Al Risk Resources > Contact Careers Donate us proader propiem and simple enough that it can be concretized and improved. The task requires foresight: where will the machine learning field go next? What is becoming possible that previously wasn't? This website uses cookies We use cookies to personalise content and ads, to provide social media features and to analyse our traffic. We also share information about your use of our site with our social media, advertising and analytics partners who may combine it with other information that you've provided to them or that they've collected from your use of their services. **Necessary Preferences Statistics** Marketing Show details > that the benchmark is being designed for. This likely means doing research in the area, talking to others doing research, and absorbing what it's like to use a benchmark. It's not wise to try to swoop into a field without knowing anything about

how researchers in the field approach their

About Our work ✓ Al Risk Resources > Contact **Careers Donate** us the community you aim to mobilize. An additional benefit is that listening to researchers' intuitions on a given problem might give ideas for how to concretize it. One way of doing this is to collect their This website uses cookies We use cookies to personalise content and ads, to provide social media features and to analyse our traffic. We also share information about your use of our site with our social media, advertising and analytics partners who may combine it with other information that you've provided to them or that they've collected from your use of their services. **Necessary Preferences Statistics** Marketing Show details > expectations. From an outside view, it is quite difficult to design a good metric, or else it would be easy to write highly impactful papers. The internet has a vast amount of data that

can be collected. If it appears necessary

8/12/24, 4:43 PM Devising ML Metrics | CAIS **About** Resources > Our work ✓ Al Risk Contact Careers Donate us makes sense to spend more time scouring the internet (note that this is different for applications projects, such as self-driving cars). If there is nothing relevant on the internet, this may indicate that the idea This website uses cookies We use cookies to personalise content and ads, to provide social media features and to analyse our traffic. We also share information about your use of our site with our social media, advertising and analytics partners who may combine it with other information that you've provided to them or that they've collected from your use of their services. **Necessary Preferences Statistics** Marketing Show details >

> different writers and so on is very useful because it allows for making progress in a number of dimensions at once. Beware of believing that there are more dimensions than they are: for instance, procedurally generated data may appear to have many dimensions ("we have infinitely many

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CAIS is an AI safety non-profit. Our mission is to reduce societal-scale risks from artificial intelligence.

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