Surveying Surveys: Surveys' Role in Evaluating AI's Labor Market Impact

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Abstract

A majority of Americans believe that AI will reduce the number of jobs in their 1 industry [1], with concerns about AI use rising by 40% between 2021 and 2023 2 [2]. Additionally, 37% of US CFOs reported that AI tools have automated tasks 3 previously performed by workers [3]. We only know this information because 4 of surveys. To deepen our understanding of AI's effects on humans, we should 5 use more in-depth, more frequent, and broader surveys that evaluate the human 6 experience of AI's impacts, especially in the workplace. By integrating survey data 7 with technical performance evaluations, we can better understand AI's real-world 8 impact on workers and forecast future disruptions. Alongside technical evaluations, 9 survey evaluations can inform policy responses aimed at mitigating the negative 10 economic consequences of AI adoption. 11

12 **1** Introduction

Current evaluations focus on technical performance at the model or task level, while political discourse
around model safety emphasizes pre-deployment concerns. This approach often neglects critical
human factors, such as adoption rates, integration processes, and organizational personnel decisions.
Although there has been progress in evaluating short-term labor market impacts—such as comparing
AI-generated output to human work or assessing potential reductions in labor costs—these evaluations
fall short in assessing realized impacts [4]. This challenge arises because such impacts are driven
more by human and organizational decisions than by AI models themselves.

20 2 The Need for Surveys

This is why we need additional tools to evaluate AI's realized impact, and surveys are one such tool. We should pay more attention to existing surveys to understand the current state of AI implementation and societal sentiments. Furthermore, investing in new, regularly conducted, internationally representative surveys could provide valuable insights that current evaluations cannot capture. Expanding the use of surveys as an evaluation method would enhance assessments in three critical areas:

- 1. Measuring models' direct and indirect impacts on workers and organizations;
- 27 2. Informing data-driven policymaking in the public and private sectors; and
- 28 3. Guiding model development to create fairer, more equitable outcomes in the labor market.

Historically, we failed to mitigate the negative economic impacts of technology-driven job displace ment. While this inaction was detrimental for many, the overall economic impact was limited because
 previous displacement tended to be slow-moving and geographically concentrated. In contrast, AI-

³² driven displacement is likely to be faster, more widespread, and affect a broader range of workers [5].

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Given these differences, it is crucial for surveys to evaluate AI's human impact by linking technical
 capabilities with real-world outcomes. This includes gathering post-integration data on AI's effects
 on work, workers, and organizations, as well as assessing AI's collective impact across industries.
 Surveys also offer a relatively low-cost, low-effort method to gather insights from a representative set

37 of workers and organizations.

38 3 Survey Evaluations as a Policy Tool

The Michigan Survey tracks consumer sentiments and is used by economic policymakers to assess current conditions and forecast future trends [6]. Similarly, we need a mechanism that enables policymakers to make informed decisions regarding regulations, social safety nets, and other policy areas affected by AI-driven changes in the labor market. By combining insights from technical evaluations with survey data, researchers and policymakers can more accurately identify and forecast labor market disruptions. Survey insights can be used to:

- **Trigger policy responses** by continuously surveying workers, particularly those in AIexposed professions, as seen in recent surveys conducted in Denmark [7];
- **Forecast the need for responses**, drawing on data such as the June 2024 Fed/Duke University CFO Survey, which reveals employers' future plans to automate tasks [3]; and
- Assess the efficacy of policies by embedding surveys into policy performance measurements to understand if the policy's intended human outcomes are achieved.

Policy responses should specifically address challenges related to job displacement, such as providing
 financial safety nets and reskilling opportunities. It is crucial for policymakers, researchers, and
 technologists to integrate surveys into current evaluation frameworks to ensure timely and effective
 responses to labor market disruptions.

55 4 Advancing Surveys

In addition to these limitations, there are overarching gaps in current survey data that need to be addressed. To fill these gaps, we propose developing new surveys or expanding existing ones to provide:

59 4.1 Regularly collected time-series data

Given the rapid pace of AI adoption and the evolving nature of AI capabilities, it is essential to track
 changes over time. For example, adding questions about AI-driven automation and job displacement
 to the US Census Bureau's Current Population Survey (CPS) would create a monthly record of
 employment changes tied to demographic data.

64 4.2 Forward-looking expectations

It is important to understand how workers and organizations adjust their behavior in response to AI

⁶⁶ integration. Currently, we lack data on how workers plan to respond to AI-related economic shifts ⁶⁷ (e.g., reskilling, financial planning). Polling efforts like the EU's Eurobarometer could incorporate

(e.g., reskilling, financial planning). Polling efforts like the E
 questions on this topic to help shape future policy responses.

69 5 Limitations

The proposed solution is based on findings from a limited number of existing surveys (Appendix A)
that do not yet exemplify human impact. Moreover, this research makes the assumption that survey
data is accurate. Survey data—and self-reported data in general—are imperfect for measuring many
aspects of the human impact of AI. Administrative data would be ideal, but we recognize that it can
be more difficult and slower to attain and is possibly costlier to collect.

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95 A Appendix / supplemental material

- ⁹⁶ Some surveys and polling are beginning to fill this gap. Yet, there are areas in which these surveys
- ⁹⁷ could go deeper to provide us with more insightful data around AI's impacts. Examples of surveys
- ⁹⁸ that have come out over the past few months that do fill some gaps include:

Survey	Population	Organization	Key Takeaways	Follow-up Questions
GenAISurvey 225 global C- -2024 Suite and se- nior business leaders		KPMG	71% of business executives say they are using GenAI to leverage data in decision making, 52% say it is shaping competitive positioning, and 47% say it is opening new rev- enue opportunities.	What types of decisions are these leaders using AI for?
Americans Express Real Concerns About Artificial Intelli- gence	5,835 US adults	Bentley Uni- versity & Gallup	75% of Americans believe AI will reduce the number of jobs over the next 10 years. 77% trust businesses "not much" or "not at all" to use AI responsibly. 85% expressed concern about AI making hiring recommen- dations. 57% believe that business transparency around AI use would reduce their concerns.	What were workers' per- sonal experiences with AI or their expectations for their own jobs?
YouGov Survey: AI and Jobs	1,098 US YouGov adults		48% of respondents think AI will decrease job opportunities in their industry. 1 in 3 are concerned about AI-induced job reduction or loss. 56% believe that the government should regulate AI in the workplace.	Which types of workers are already affected by in- come loss?
AI Survey: Four Themes Emerging	200 global companies	Bain	Poor performance and output quality were the top reasons that GenAI did not meet companies' expectations.	Did AI's performance change its implemen- tation within organiza- tions?
AI at Work 2024: Friend and Foe	13,102 global workers	BCG	42% of workers fear AI-related job loss (up 6 percentage points from last year); managers and leadership are more confident about GenAI.	Are these workers chang- ing their behavior in re- sponse to this predicted job market shift?
U.S. Companies Ramp Up Au- tomation and AI as Inflation Persists	2,200 US CFOs across businesses	Duke Univer- sity, Federal Reserve	37% of CFOs said that AI tools automated tasks previously done by workers, with 54% planning to do so in the next 12 months.	What was the actual impact of this automation on workers?
Harvard Under- graduate Survey on Generative AI	326 US under- graduate stu- dents	Harvard Un- dergraduate Association	50% of students are concerned that AI will negatively impact their job prospects. Students are worried about economic inequality and ex- tinction risk.	Have these concerns al- tered students' planning for the future?
Most workers think AI will affect their jobs. They disagree on how.	35,000 global private-sector workers	ADP	85% of workers believe AI will im- pact their job in the next two to three years. Workers who think AI will help them have more confidence in their skills and are more likely to say they have the skills necessary to ad- vance their career.	Does the administrative data match concerns?

Table 1: Appendix A: Surveys related to AI and work (June-August 2024)

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