

AI Exposure and Industry Productivity Growth

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Research Question: Do industries with greater AI exposure experience faster productivity growth?



Motivation

Productivity is a key indicator of economic efficiency and growth. In 2022, commercial large language models (LLMs) such as ChatGPT were introduced. This general-purpose technology could increase growth. But what do the data tell us?



Data

- BLS measures of productivity growth in 59 industries
- Eloundou et al.'s measures of the proportion of tasks in each occupation likely to be dramatically affected by AI (human rating beta)
- 2021 occupation-by-industry employment from the BLS Occupational Employment and Wage Statistics survey to convert tasks in each occupation to tasks in each industry

