EDWARD CONARD



Macro Roundup Article

Headline: Firm Investments in Artificial Intelligence Technologies and Changes in Workforce Composition

Article Link: https://www.nber.org/papers/w31325

Author(s)	Tania Babina, Anastassia Fedyk, Alex He and James Hodson
Publication	National Bureau of Economic Research
Publication Date	June 14, 2023

Tweet: Between 2010 and 2018 firms that invested in AI shifted employment towards more junior employees with high educational attainment and technical expertise. @TaniaBabina @AnastassiaFedyk @AlexXiHe

Summary: In terms of labor composition, we observe a general upskilling trend associated with larger Al investments. Firms that invest more in Al tend to increase their shares of workers with bachelors, masters, and doctoral degrees (correspondingly decreasing the share of workers without college education). For example, a one-standard-deviation increase in the firm's share of Al workers translates into a 3.7% increase in the share of workers whose maximal educational attainment is an associates or bachelors degree, a 2.9% increase in the share of workers whose maximal educational attainment is a masters degree, and a 0.6% increase in doctoral degrees. These increases in educated workers correspond to a 7.2% decline in the share of workers without college education.

Related Articles: nan

Primary Topic: Innovation/Research

Topics: Academic paper, Database, High vs Low Skill, Innovation/Research, Investment, Productivity, Workforce Reorganization

PDF File URL: https://www.edwardconard.com/wp-content/uploads/2023/06/w31325.pdf

Permalink: https://www.edwardconard.com/macro-roundup/btw-2010-and-2018-firms-that-invest-in-ai-shift-employees-with-high-educational-attainment-and-tech-in-ai-shift-employees-with-high-educational-attainment-and-tech-in-ai-shift-employees-taniababina-anastassiafedyk-alexxihe?view=detail

Featured Image

Link: https://www.edwardconard.com/wp-content/uploads/2023/06/Table-2-Al.png