

ECON 376 Economics of AI

Department of Economics

TED University

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Mid-term Exam

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Time limit: 60 mins. Page limit: 1 page.

Q1: Refer to the visualization on the reverse side of this page. (Source: OECD.ai)

- Describe the subject of the visualization.
- What insights does it convey?
- As a researcher or entrepreneur, what lessons and strategies would you derive from the visualization?

(%30)

Q2:

In their *Political Economy of Artificial Intelligence* (2024: vii), Bhabani Shankar Nayak and Nigel Walton argue that:

The world is currently experiencing an unprecedented technological revolution that is fundamentally altering the dynamics of individual, familial and societal interactions within a digital framework. The rapid advancement of data-driven technology has seamlessly integrated itself into every facet of social and human activities, driven by the prevalence of “big data”. This widespread adoption of “big data” goes beyond a mere shift in knowledge paradigms; it has effectively transformed society into a “data-driven society”, where “data” serves as the primary currency governing social communication, decision-making, innovation and interpersonal interactions.

What is data-driven society? Analyze the implications of this form of society for national economies in the twenty-first century, providing one **real-world example** to support your analysis.

(%30)

Class activities:

%40



Explanation: This visualizations displays the age, education, and income breakdown of Stack Overflow Survey respondents by year and country. Bar size and color correspond to the distribution of respondents in each category.

Note: Aggregate demographic information from survey respondents is leveraged to build indicators and identify trends related to the profession, country, salary, education, gender, and age of AI developers. Please see [methodological note](#) for more information. To ensure meaningful comparisons, country breakouts only include those countries with over 500 overall respondents for a given year.

Source of data: Stackoverflow Survey

Please cite as: OECD AI (2024), visualisations powered by Tableau using data from Stackoverflow, accessed on www.oecd.ai. Supported by the [Patrick J. McGovern foundation](#).