



Beyond the AI Divide: A Simple Approach to Identifying Global and Local Overperformers in AI Preparedness

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This review verifies the reproducibility of the exhibits included in the paper “*Beyond the AI Divide: A Simple Approach to Identifying Global and Local Overperformers in AI Preparedness*”.

Contents in this review:

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Main findings

- **Every exhibit has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Changing directory paths in the do files.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 15 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on February 19th.
- **Reproducibility Summary:**
 - **Data:** All data sources are publicly available but not all are included in the reproducibility package. The reviewers verified that publicly available data matches the data that is not included in the reproducibility package.
 - **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.
 - **Outputs:** All outputs are generated by code included in the reproducibility package.
 - **Reproducibility verification:** Reviewers used data provided directly by the authors to conduct the reproducibility verification, and some of these are not included in the public reproducibility package.
 - **Dependencies environment:** The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

*List of exhibits and reproducibility status***Results in the Main Section of the Paper**

- **Figure 1** Reproduced.
- **Figure 2** Reproduced.
- **Figure 3a** Reproduced.
- **Figure 3b** Reproduced.
- **Figure 4** Reproduced.
- **Figure 5** Reproduced.
- **Figure 6** Reproduced.
- **Figure 7a** Reproduced.
- **Figure 7b** Reproduced.
- **Figure 8a** Reproduced.
- **Figure 8b** Reproduced.
- **Figure 8c** Reproduced.
- **Figure 9a** Reproduced.
- **Figure 9b** Reproduced.

Results in the Annex

- **Table A.1** Reproduced. Output presents some instability after the 11th decimal digit. Due to the nature of the analysis, this does not affect reproducibility.
- **Table A.2** Reproduced.

Reproduction Environment

- Paper exhibits were reproduced on a computer with the following specifications:
 - OS: Windows 10 Enterprise
 - Processor: Intel(R) Xeon(R) Gold 6132 CPU @ 2.60GHz (2 processors)
 - Memory available: 32 GB
 - Software version: Stata 18.0 MP, R 4.4.0