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Peer Review

Review of: "Cross-Country Comparison of the Use of Artificial Intelligence in European Companies and Its Determinants"

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The manuscript asks a clear question and uses a transparent public source (Eurostat) to compare AI use across the EU-27 by sector and firm size. The cluster results are easy to follow, and the main pattern is presented clearly.

The paper would be stronger with more careful interpretation and a bit more method detail. First, the data are from a single year (2021), so the conclusions should be framed as a snapshot rather than different "speeds of development," and the paper should avoid causal wording (for example, "AI contributes to wealth/productivity"), because richer and more innovative countries may simply be more able to adopt AI. Second, the cluster solution includes very small groups (Cluster 3), so it would help to justify where the dendrogram is cut and add a simple robustness check. Finally, since GDP per capita, patents, and productivity are correlated, a simple multivariate check (even a basic regression) would help clarify what is most strongly associated with higher AI use.

Declarations

Potential competing interests: No potential competing interests to declare.

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