Category

Data & AI

Data Literacy for Research & Academic Staff (Research Data Management) Playbook

Managing research data well enough that your own findings hold up to replication scrutiny

- Practitioner
- Intermediate
- Template Included

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- 4 minute(s)

Overview

A framework for building data literacy specifically within research and academic settings — research data management practices, reproducibility discipline, and statistical rigor appropriate to publication and peer review — addressing the specific stakes of research data literacy given increasing scrutiny of reproducibility across academic and applied research fields.

Aren't researchers already trained extensively in statistical

methods as part of their academic preparation? Statistical methods training varies significantly across fields and career stages, and even well-trained researchers can develop

practical data management and reproducibility gaps that formal statistical training doesn't specifically address — this playbook focuses on the practical data management discipline that supports genuine reproducibility.

Why has reproducibility become a more prominent concern

specifically in recent years? Increased scrutiny across many research fields has revealed that a meaningful share of published findings don't replicate reliably, often traceable to specific data management and analysis practices (small samples, undisclosed analytical flexibility) rather than fraud — practical, addressable literacy gaps this playbook targets.

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