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What is it?

Design Science Research (DSR) is a research paradigm that focuses on creating and validating new "artifacts" (like software, models, or methods) to solve practical problems, essentially aiming to develop prescriptive knowledge about how to design solutions to specific issues.

DSR offers a systematic approach to developing and evaluating innovative artifacts, including Responsible AI (RAI) systems (De Leoz and Petter, 2018).

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Its Importance

DSR is important because it enables the structured development and assessment of artifacts that can significantly impact organizational policies, employee roles, product specifications, and operational procedures.

By incorporating societal implications into the design process, DSR ensures that AI solutions are ethical, inclusive, and effective, ultimately benefiting both organizations and the broader community.

Design Science Research for Responsible AI

Conversation Starter



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4 Questions to Ask

How can DSR be integrated into our current research and development processes to enhance innovation?

What specific artifacts (e.g., models, methods) can we develop using DSR to address our organizational challenges?

How do we ensure that the artifacts we create through DSR consider societal and ethical implications?

What role do employee stakeholders play in the DSR process, and how can we effectively involve them?

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