
Plan Overview

A Data Management Plan created using DMPonline

Title: Reimagining Education in the Age of Responsible AI.

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Project abstract:

In an era defined by rapid technological innovation, artificial intelligence is not only reshaping educational practices but also challenging traditional values and equity within learning environments. AI promises enhanced personalization, improved administrative efficiency, and innovative pedagogies, yet it also risks amplifying biases, compromising privacy, and deepening existing inequalities. At the same time, education holds a transformative power beyond merely adapting to AI-driven change, it can actively steer the development and ethical governance of AI. Theoretically, we use the Cultural-Historical Activity Theory (CHAT), and provide a robust lens to examine the dynamic interplay between human agents and technological artifacts within the educational context. We adopt a cross-sectional survey design to quantitatively assess the impact of responsible AI on education. We sent out the structured questionnaire to 350 students but only 163 responded.

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Reimagining Education in the Age of Responsible AI.

Data Collection

What data will you collect or create?

Questionnaires will be sent out to respondents. The study targets students, teachers, and educational administrators from institutions that have integrated AI-driven tools (e.g., personalized instruction and adaptive assessments).

Questionnaire Structure:

The survey instrument is composed of 15 items distributed across four sections:

- - Section A: Impact of AI-driven personalized instruction on learning outcomes.
 - Section B: Influence of AI-powered adaptive assessments on student engagement and performance.
 - Section C: Effectiveness of AI support in addressing individual student needs.
 - Section D: Ethical considerations surrounding AI use in education.

Section E: Perspectives on Educational Activity Systems (CHAT)

How will the data be collected or created?

Administration:

Data will be collected through an online survey platform (JISC). Participants will be provided with an informed consent form explaining the study's purpose, their rights, and measures taken to ensure confidentiality.

Timeline:

The survey will remain open for a specified period (e.g., 3–4 weeks) with follow-up reminders sent to maximize the response rate.

Documentation and Metadata

What documentation and metadata will accompany the data?

Information sheet and consent form as part of the questionnaire.

Ethics and Legal Compliance

How will you manage any ethical issues?

Ethical Considerations

- **Informed Consent:**
Participants will be fully informed about the research purpose, the voluntary nature of participation, and their right to withdraw at any time.
- **Confidentiality:**
All responses will be anonymized and stored securely to ensure participant confidentiality.

Data Usage:

Collected data will be used solely for the purposes of this research and reported in aggregate form only.

How will you manage copyright and Intellectual Property Rights (IPR) issues?

Question not answered.

Storage and Backup

How will the data be stored and backed up during the research?

Data will be stored in a passworded cloud database

How will you manage access and security?

access via password will only be granted to both co-investigators of this project. anybody else requiring access will contact us.

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

After publication, anonymised data will also be published via Mendeley and available to be used for research purposes by other scholars

What is the long-term preservation plan for the dataset?

Available online with a DOI assigned to it.

Data Sharing

How will you share the data?

Disseminated as part of a research output and also as a data

Are any restrictions on data sharing required?

no restrictions as data is completely anonymised

Responsibilities and Resources

Who will be responsible for data management?

both investigators of this project

What resources will you require to deliver your plan?

time and access to library resources