Argumentation-based Conversational Agents for Social Protection Delivery in the Global South

Towards Explainable AI for Human Capital Systems











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Why This Matters

Background / Motivation

- Human capital development crucial for poverty reduction in Global South
- Trust between beneficiaries and implementing agencies eroded by opacity
- Conversational AI offers scalable solutions for information access

Research Problem

- Explain decisions: How can Al justify eligibility outcomes?
- **Dialogue**: How can agents engage in meaningful interactions?
- **Trust**: How can we build beneficiary trust in Al systems?

How We Do It

Approach



Identifying patterns of reasoning in social protection

? Critical Questions

Challenging premises and conclusions

Explainable AI (XAI)

Transparent justification of reasoning

Case Studies

Case Studies

Cash Transfers

Examining eligibility explanations

Jobs

Guiding through employment support

Public Works

Clarifying participation criteria

What We Deliver

Expected Contributions



Enhanced Trust

Beneficiary confidence through transparent AI



Improved Communication

Clear dialogue between AI and beneficiaries



Actionable Policy Insights

Data-driven feedback to refine programs

Next Steps

Prototype Development

Initial construction focusing on core functionalities

User Studies & Feedback

Rigorous testing with target beneficiaries

Integration & Scalability

Strategies for broader deployment in Global South

[&]quot;Towards trusted and explainable AI for social protection."