



Context	Beneficence		Non-maleficence		Solution	
□ In which context is the solution evaluated? Embedded into an ITS to tailor education and learning material to each student	□ What are the expected benefits of the solution in this context?		Risks	Mitigation	□ What are the characteristics of the	
	Presenting students with questions or material they do not know to maximize learning gains	Presrnting instructors with learning status of each student to aid in intervention or improving teaching strategies	Solution have? Confidence scores can be provided, but not an	the description of the contract of the contrac	solution under evaluation? ML models to trace the knowledge of the student over time, predicting the next answer of the student to the next question	
	Privacy		Fairness		given previous answers	
Embedded into an ITS to inform instructors of the students' learning gains	Risks	Mitigation	Risks	Mitigation		
	□ What data does the solt □ Tracking student answers to questions over time, with access for instructors (must be accompanied with permission) □ Other (other training on previously-collected and permitted data) □ The ITS must take care of data protection, but students can be still identifiable by their answering patterns -> we suggest an offline training on previously-collected and permitted data		□ People with no access to ITS or weak internet connection may solve exercises offline, thus d not helping the models in their inference and not benefiting as well discrimination against pe			
	Sustainability		Empowerment			
	Risks	Mitigation	Risks	Mitigation		
	□ What is the carbon footprint of the solution? □ What types of resource (explanations on how the r	Not agreeing to provide information can reduce learning gains due to unpersonalized learning (can be partly solved by offline inference) explainable; transparent models work and their limits reessary		