

Resources Inventory (longlist)

Learning Resource	Type	3 A's (learning objectives)	Lect.	Small group	Indiv.	STEM	BA	PPLE	Soc. Scie.	Required prior knowledge	Notes	Relevant Requirements EGTAI (Ethics Guidelines for Trustworthy AI)
<u>ALTAI</u>	Assessm List	Appreciation Analysis Application	Back-ground	Y	Y	Y	Y	Y	Y	None		All
<u>Davis' 7 step method</u>	Exercise	Appreciation Analysis Application	Back-Ground	Y	Y	Y	Y	Y	Y	None		All
<u>Tarot Card for Tech</u>	Cardset	Appreciation	N	Y	N	Y	Y	Y/N	N	None	Helps appreciate general impact of technology	All
<u>Survival of the best fit</u>	Game	Appreciation	N	N	Y/N	Y	Y	Y	N	None	Game about a hiring algorithm Limited educational value	5. Diversity, Non-discrimination & Fairness
<u>Unbias Toolkit</u>	Handbook	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	All elements build on each other	n.a.
	Awareness Cards	Appreciation Analysis Application	N	Y	N	Y	Y	Y	N	None	Can be gamified	All

Learning Resource	Type	3 A's (learning objectives)	Lect.	Small group	Indiv.	STEM	BA	PPLE	Soc. Scie.	Required prior knowledge	Notes	Relevant Requirements EGTAI (Ethics Guidelines for Trustworthy AI)
	TrustScape (poster)	Appreciation	N	Y	Y	Y	Y	Y	N	None	Primarily aimed at young people to identify dreams and ideals	Not specific
	MetaMap (Poster)	Appreciation	N	N	N	N	N	N	N	None	Aimed at stakeholders to react to Trustscape	Not specific
	Value Perception Worksheets	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Evaluation of the toolkit	n.a.
Proto-strategos	Role playing game	Appreciation Analysis Application	N	Y	N	Y	Y	Y	Y	None		All
Ethics of AI	Online course	Appreciation	Back-Ground	N	Y	Y	Y	Y	Y	None		All
Getting playful with Explainable AI	Game	?	N	Y	N	Y	N	N	N	Technical/ AI/Data Science	Could not play the game	4. Transparency
Quickdraw	Game		N	N	Y	Y	N	N	N	None	Can be used as a basic showcase	None

Learning Resource	Type	3 A's (learning objectives)	Lect.	Small group	Indiv.	STEM	BA	PPLE	Soc. Scie.	Required prior knowledge	Notes	Relevant Requirements EGTAI (Ethics Guidelines for Trustworthy AI)
<u>People + AI Guidebook by Google</u>	Guide	Appreciation Analysis Application	Back-Ground	Y	Y	Y	N	N	N	None		1. Human Agency and Oversight 2. Technical Robustness and Safety 3. Data governance 5. Transparency 7. Accountability
AI Blindspots	<u>Cardset 2.0</u>	Appreciation Analysis Application	N	Y	Y/N	Y	Y	Y	Y	None		All
<u>AI meets Design Toolkit</u>	Crash Course AI/ML	Appreciation Analysis Application	Y	Y	N	Y	N	N	N	Technical/ AI/Data Science		2. Technical Robustness and Safety
	Card deck	Appreciation Analysis Application	N	Y	Y	Y	Y	Y	Y	None	Card deck prompts numerous AI uses that could be problematic in light of the requirements Could be used as 'use case generator'	All
	Worksheets model's logic & data	Application	N	Y	Y	Y	N	N	N	Technical/ AI/Data Science		2. Technical Robustness and Safety 3. Data Governance

Learning Resource	Type	3 A's (learning objectives)	Lect.	Small group	Indiv.	STEM	BA	PPL	Soc. Scie.	Required prior knowledge	Notes	Relevant Requirements EGTAI (Ethics Guidelines for Trustworthy AI)
	Worksheet Value Tensions	Analysis Application	N	Y	Y	Y	Y	Y	Y	None		All
	Worksheet UX of AI challenges	Appreciation Analysis Application	N	Y	Y	Y	Y	Y	Y	None		All
Lectures	Knowledge clips	Appreciation	Y	Y	Y	Y	Y	Y	Y	None	Recent development	All
	Slide decks	Appreciation	Y	Y	Y	Y	Y	Y	Y	None	Per requirement and/or Per academic field	All



Shortlist

1. **ALTAI** (Assessment List for Trustworthy AI that accompanies the Ethics Guidelines for Trustworthy AI, to be integrated into each Trial OER)
2. **Davis' 7 step method**
3. **Protostrategos**
4. **Unbias Toolkit (awareness cards)**
5. **AI Blindspots Cards**
6. **Slide decks or short knowledge clips (slides + voice over))**

Selection for Trial OER's

1. Trustworthy AI role playing group exercise (based on Davis' 7 step method + Protostrategos)
2. Trustworthy AI card deck (based on Unbias Toolkit Awareness Cards and AI Blindspots Cards)
3. 7 Requirements for Trustworthy AI knowledge clips

ALTAI will serve as a basis and can be integrated into each OER



Case Studies Inventory

Resource	Case study	Academic field	Trial OER 1	Trial OER 2	Trial OER 3
<u>Princeton case studies</u>	Automated Healthcare App	STEM Medicine BA			
	Dynamic Sound ID	STEM BA PPLE Social Sciences			
	Optimizing Student Engagement	STEM PPLE Social Sciences			
	Law Enforcement Chatbots	STEM PPLE Social Sciences			
	Hiring by Machine	STEM BA PPLE Social Sciences			
	Public Sector Data Analytics	STEM PPLE Social Sciences			
Protostrategos	HR Selection Tool	STEM BA PPLE Social Sciences			



Resource	Case study	Academic field	Trial OER 1	Trial OER 2	Trial OER 3
<u>ALLAI Responsible AI & Corona Observatory</u>	Algorithmic Grading	STEM PPLE Social Sciences			
	Online Proctoring	STEM PPLE BA Social Sciences			
	Face Mask Detection	STEM PPLE Social Sciences			
	Home Office Surveillance	STEM BA Social Sciences			
	Movement Tracking	STEM PPLE Social Sciences			
	Vaccine Discovery	STEM Medicine			
	Drug Development	STEM Medicine			
	Lung CT Diagnosis	STEM Medicine			
<u>People + AI Guidebook by Google case studies</u>	Google Photo's	STEM PPLE BA Social Sciences			
	BenSci	STEM Medicine			



Resource	Case study	Academic field	Trial OER 1	Trial OER 2	Trial OER 3
	Google Flights	STEM BA PPLE Social Sciences			
	Read Along	STEM Social Sciences			
	Tune	STEM PPLE Social Sciences			
Project SHERPA	Smart City	STEM PPLE Social Sciences			
	Predictive Risk Intelligence	STEM PPLE Social Sciences			
	IoT	STEM BA PPLE Social Sciences			
	Brain research & AI	STEM Medicine			
	CRM & AI	STEM BA			
	Insurance & AI	STEM BA PPLE Social Sciences			



Resource	Case study	Academic field	Trial OER 1	Trial OER 2	Trial OER 3
	Public use of AI	STEM PPLE Social Sciences			
<u>Project SHERPA scenario's</u>	Education	STEM PPLE Social Sciences			
	Warfare	STEM PPLE Social Sciences			
	Self Driving Cars	STEM BA PPLE			
	Mimicing AI	STEM PPLE Social Sciences			
	Predictive Policing	STEM PPLE Social Sciences			
<u>AI Meets Design Toolkit Card Deck</u>	30 fictional use cases	STEM BA PPLE Social Sciences			