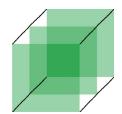
Explainability + Trust Chapter worksheet



Instructions

Block out time to get as many cross-functional leads as possible together in a room to work through these exercises & checklists.

Exercises

1. Trust calibration

Imagine situations where users could under-trust or over-trust your feature.

2. Explanation strategy

Determine which user interactions require an explanation, and what kind.

3. Test with user research

Make sure that the explanation visuals and messaging make sense and are helpful for your users.



1. Trust calibration

As a team, brainstorm what kinds of experiences and interactions would decrease, maintain, or inflate trust in your feature's AI. Identify the underlying data sources, system data and user knowledge, that could impact the calibration.

Example product: Al that classifies a skin condition.

No trust	Trust	Too much trust

User Group A

Example user group: Doctors of patients using the AI system

Example scenario: Patients see doctor with a condition that was mis-classified by the Al.

System data impacting calibration	Example: image of current condition submitted by user, label of skin conditions in training data
User knowledge impacting calibration	Example: user's prior medical history



User Group B	
	ients using the AI system Its see doctor with a condition that was misclassified by the AI.
System data impacting calibration	
User knowledge impacting calibration	



No trust	Trust	100 much trust
User Group A		
Example user group: Patients u	using the AI system	
	s AI system to identify a commor recommended treatment that wo	
System data impacting calibration		
User knowledge impacting calibration		
User Group B		
System data impacting calibration		
User knowledge impacting calibration		

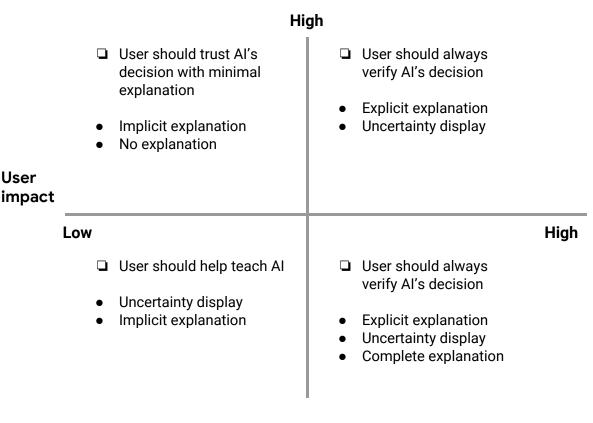


No trust	Trust	Too much trust
		•
User Group A		
Example user group: Pat	ients using the AI system	
Example scenario: Patiel diagnosis	nts with pre-cancerous cells doesn't doubl	e check the app's
System data impacting calibration		
User knowledge impacting calibration		
User Group B		
System data impacting calibration		
User knowledge impacting calibration		



2. Explanation strategy

After mapping the range of interactions that could decrease, maintain, or inflate trust, decide which interactions require an explanation. Use the 2x2 template of "User impact" vs. "Confidence of Al" to help narrow down which explanations you want to test with users. Once you have consensus on the interactions that require an explanation, use the templates below to draft the explanation copy for user testing.



Low Confidence of Al



Explanation messaging

Product interaction	
Users	
	M expert
understanding	🛮 non-expert
Explanation type	
Explanation text	



Messaging templates

Explicit explanation
Example: "You are seeing this video recommendation because you often watch cooking videos." "This is most likelyX, becauseY"
Uncertainty display - Confidence level
Example: "Prediction: [category] XX%"
Uncertainty display - N-Best
Example: "Most likely X, Y, or Z"



3. Test with user research

Use the explanations you have drafted in user research. Multiple research efforts will be needed to understand any trust concerns users anticipate, and arrive at the ideal explanations for your user groups.

Research protocol questions

- On this scale, show me how trusting you are of this recommendation. [show scale]
- What questions do you have about how [name of product / feature] came to this recommendation?
- What, if anything, would increase your trust in this recommendation?
- How satisfied or dissatisfied are you with the explanation written here?

Once you're through with the above, ask additional questions to gauge user understanding of your specific AI system and the actions users can take.