

Is Conversational XAI All You Need? Human-AI Decision Making With a Conversational XAI Assistant (Supplementary Materials)

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Readers can find supplementary materials for our IUI 2025 paper here. Mainly, we provide implementation details in Section 1. Additional Experimental results can be found in Section 2. User interfaces for conditions can be found in Section 3.

CCS Concepts: • **Human-centered computing** → **Empirical studies in HCI**.

Additional Key Words and Phrases: Human-AI Decision Making, Appropriate Reliance, Conversational XAI Interface

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1 IMPLEMENTATION DETAILS

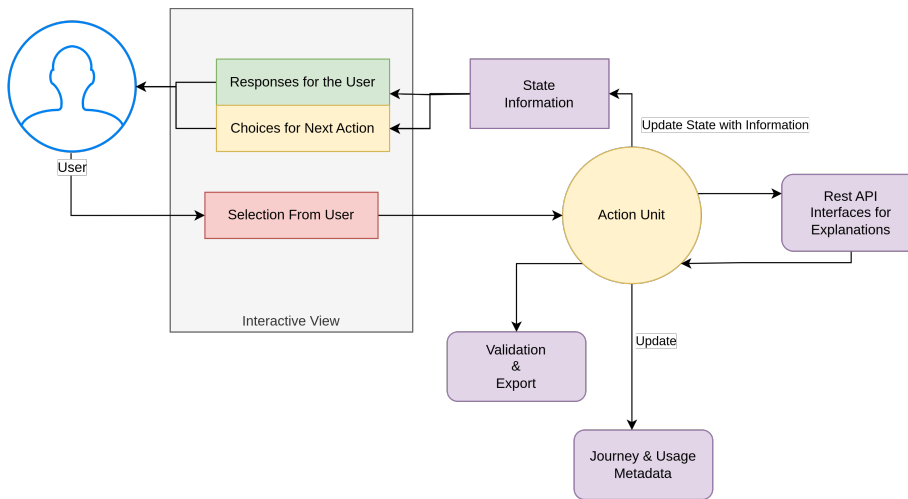


Fig. 1. Conversational XAI Architecture for condition CXAI and ECXAI.



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1.1 Technical Implementation

The frontend of our interface is mainly based on AngularJS¹, while the backend is based on Flask². All XAI methods and XAI dashboard are implemented based on OmniXAI³. For the web deployment, we used docker⁴ to wrap the backend service. The code for the interface will be made public after the review process.

Rule-based conversational agents. The condition **CXAI** and **ECXAI** in our study are based on rule-based conversational agents. The working mechanism can be visualized with Figure 1. It works in an iterative loop. Every action is triggered by the user selection of a customized button (guiding message to obtain XAI responses) or user input with HTML components (e.g., WhatIf selection dropdown and input box). Once XAI responses are generated, the loop will guide users in exploring options in a highly similar workflow. The difference between condition **CXAI** and **ECXAI** is mainly the guiding messages and XAI responses (readers can refer to our manuscript, Section 3.2).

Conversational XAI interface on top of LLM agents. Instead of a highly fixed mode of interaction, LLM agents can help automate the whole conversation. Our implementation of LLM Agents is based on autogen [10]⁵ and GPT-4⁶. We defined all XAI methods as one tool/action to be managed by one LLM agent (XAI planner). The system prompt for XAI planner can be found in Listing 1. With a user proxy in autogen, user queries will be sent to LLM agent – XAI planner. After the selection of XAI responses (multiple XAI responses can be selected for one query), the XAI responses will be sent to one LLM agent (i.e., XAI response interpreter) to rephrase and provide a more coherent and high-quality response in text. Notice that, for XAI methods SHAP, Decision Tree and PDP, we still provide the figures as illustration, which is consistent with other XAI interfaces.

1.2 Loan Approval Task

The basis for our experimental setup is a task where participants have to decide whether a loan application is **Credit Worthy** or **Not Credit Worthy** using the publicly available loan prediction dataset.⁷

In the loan approval task, participants are presented with eleven features (including loan amount, income, and the absence or presence of credit history) in both table format and text description (as shown in Figure 2). Based on the application profile (composed of the eleven features), participants are asked to decide whether the loan applicant is credit worthy to get the loan approved. This simulates a realistic scenario where participants interact with an AI system and may rely on AI advice and XAI methods due to the inherent complexity in decision-making [8]. As the selected loan approval task is one where decision making is fully based on the eleven features, it would be easier to assess users' decision criteria based on the top-ranked features explicitly specified by the users themselves.

Task Selection. All participants in our study were presented with ten loan approval tasks in the main task phase. All such cases are selected from the test set of a random split of the full dataset (training / test ratio 4:1). All tasks were evenly split between those where the loan applicant should be **Credit Worthy** for the loan being approved and those where the applicant profile should be **Not Credit Worthy**. As shown in Table 1, we selected the ten tasks according to prediction correctness and model confidence. We first trained an XGBoost Classifier [1] based on the training set. For both **Credit Worthy** cases and **Not Credit Worthy** cases, we selected one high-confidence correct prediction,

¹<https://angularjs.org/>

²<https://github.com/pallets/flask>

³<https://github.com/salesforce/OmniXAI>

⁴<https://www.docker.com/>

⁵<https://github.com/microsoft/autogen>

⁶<https://openai.com/>

⁷<https://www.kaggle.com/altruistdelhite04/loan-prediction-problem-dataset>

Please review the loan applicant profile below and predict whether the loan application is Credit Worthy or not

You are provided with a profile of applicant (A)

Profile of Applicant

Gender	Male	Married	Yes
Dependents	2	Education	Graduate
Self Employed	No	Applicant Income (\$)	11714.0
Coapplicant Income (\$)	1126.0	Loan Amount (k\$)	225.0
Loan Amount Term (months)	360.0	Credit History	Yes
Property Area	Urban		

The loan applicant is a male who is married and has 2 dependents. The applicant has a property in urban neighborhood. The applicant is graduate and is not self employed. Income of the applicant is \$11714.0 and coapplicant's income is \$1126.0. The loan amount is \$225.0 k and loan term is of 360 months. The applicant has a credit history. (B)

After going through profile. You have to make a prediction

Make your prediction

Do you think the loan application is creditworthy? *is required

☐ Yes, I believe the application is Credit Worthy of receiving a loan (C)
 ☐ No, I believe the application is Not Credit Worthy for receiving a loan

Fig. 2. Screenshot of the loan approval task interface. This is the first stage of decision making. (A) Loan Applicant profile is shown in the table with 11 features. (B) To help understand the tabular data, we also provided a textual description below. (C) After going through the profile, participants are asked to decide whether this loan application is 'Credit Worthy' or 'Not Credit Worthy.'

Table 1. Task selection criteria for our study.

Task ID	Groud Truth	Correctness	Model Confidence
1	Credit Worthy	✓	High
2	Credit Worthy	✓	Low
3	Credit Worthy	✓	Random
4	Credit Worthy	×	Low
5	Credit Worthy	×	High
6	Not Credit Worthy	✓	High
7	Not Credit Worthy	✓	Low
8	Not Credit Worthy	✓	Random
9	Not Credit Worthy	✓	Random
10	Not Credit Worthy	×	High

one random-confidence correct prediction, one low-confidence correct prediction, and one high-confidence wrong prediction. While we adopted another random-confidence correct prediction for class **Not Credit Worthy**, we selected another low-confidence wrong prediction for class **Credit Worthy** to control the accuracy of the AI system to be 70%. This experimental design was also informed by a pilot study without AI advice. We recruited 20 participants from the Prolific platform to work on the selected loan approval tasks, and found that they achieved an accuracy level around 60%. To ensure the AI system is helpful to improve human decision making accuracy and maintain the risk of accepting wrong advice, we manually controlled the accuracy of the AI system to be 70%. During the study, we randomly shuffled the task order for each participant to prevent ordering effects [7].

1.3 XAI Methods and Onboarding Tutorial

Based on existing literature on XAI methods [5, 9] and open-source XAI toolkits [6, 11], we identified and adopted five representative XAI methods that cover diverse user information needs. These are (1) A global explanation method – PDP (*i.e.*, partial dependency plot) [2], it visualizes how one feature globally impact the model prediction, (2) Feature importance attribution method – SHAP [4]. Based on Shapley values, the SHAP method will provide an importance vector to indicate how each feature in the current input supports or opposes the current model prediction. In our implementation, we visualize whether one dimension supports or opposes current AI advice. (3) Counterfactual explanation method – MACE [12]. Counterfactual explanations can help decision makers understand what minimum changes can cause a different model prediction, which can be used to inform feature importance and provide actionable advice. In our implementation, MACE will inform users the minimum changes in applicant profile required to flip model prediction. (4) The widely adopted interactive XAI method – WhatIf,⁸. Based on the WhatIf toolkit, users can modify the applicant profile and obtain the model prediction for the new profile. (5) Decision tree-based explanation.⁹ Decision tree-based explanation is one popular XAI method, which makes decisions based on a tree-structure decision criteria. In our implementation, we provide the decision path to reach the AI advice. We implemented all these XAI methods by using the OmniXAI library.¹⁰

Screenshots of XAI responses. The SHAP response in the condition **Dashboard**, condition **ECXAI**, and condition **LLM Agent** can be found in Figure 6(a), Figure 7(a), and Figure 8(a). The PDP response in the condition **Dashboard**, condition **ECXAI**, and condition **LLM Agent** can be found in Figure 6(c), Figure 7(c), and Figure 8(c). The MACE response in the condition **Dashboard**, condition **ECXAI**, and condition **LLM Agent** can be found in Figure 6(e), Figure 7(e), and Figure 8(e). The WhatIf response in the condition **Dashboard**, condition **ECXAI**, and condition **LLM Agent** can be found in Figure 6(b), Figure 7(b), and Figure 8(b). The decision tree-based explanation in the condition **Dashboard**, condition **ECXAI**, and condition **LLM Agent** can be found in Figure 6(d), Figure 7(d), and Figure 8(d).

Onboarding Tutorial. As these XAI methods may be challenging for laypeople to follow, we designed an onboarding tutorial to help participants get familiar with them. In the onboarding tutorial stage, we described each type of XAI method. This onboarding tutorial can play an important role in helping participants understand the different XAI methods and the loan approval task. It also helps us to prevent potential familiarity biases and other effects due to misinterpretation. While it would be straightforward for participants who have access to the XAI dashboard, participants interacting with the conversational XAI interface may need some guidance in accessing each type of explanation. To facilitate that, we provided GIFs to demonstrate how each type of explanation in the conversational XAI interface could be accessed. Apart from the onboarding tutorial before the tasks, participants could access detailed instructions throughout the task in all experimental conditions.

1.4 Quality Control

Qualification Test. To ensure participants pay attention to our onboarding tutorial. We asked one question: “Which explanation highlights the steps that led to the current prediction?”. All participants with XAI interfaces are asked to choose from the five XAI methods. Once they choose a wrong answer, we will kick them out of our study.

⁸<https://pair-code.github.io/what-if-tool/>

⁹<https://scikit-learn.org/stable/modules/generated/sklearn.tree.DecisionTreeClassifier.html>

¹⁰<https://github.com/salesforce/OmniXAI>

Attention checks. To check whether users pay attention to our decision tasks, we added one attention check page that looks very similar to other task pages. Participants are asked to select a specific option. Similarly, among all long questionnaires (*i.e.*, more than 10 questions), we put one attention check in the middle. Participants are supposed to select a specific option. In our experimental analysis, we only kept participants who passed all attention checks.

1.5 Measures and Variables

All measures and variables used in our study are summarized in Table 2.

Table 2. The different variables considered in our experimental study. “DV” refers to the dependent variable.

Variable Type	Variable Name	Value Type	Value Scale
User Understanding (DV)	Perceived Feature Understanding	Likert	5-point, 1: low, 5: high
	Objective Feature Understanding	Continuous	[0.0, 1.0]
	Learning Effect across Tasks	Likert	5-point, 1: low, 5: high
	Understanding of the System	Likert	5-point, 1: low, 5: high
Trust (DV)	TiA-Reliability/Competence	Likert	5-point, 1: poor, 5: very good
	TiA-Understanding/Predictability	Likert	5-point, 1: poor, 5: very good
	TiA-Trust in Automation	Likert	5-point, 1: strong distrust, 5: strong trust
Performance (DV)	Accuracy	Continuous	[0.0, 1.0]
	Accuracy-wid	Continuous	[0.0, 1.0]
Reliance (DV)	Agreement Fraction	Continuous	[0.0, 1.0]
	Switch Fraction	Continuous	[0.0, 1.0]
Appropriate Reliance (DV)	RAIR	Continuous	[0.0, 1.0]
	RSR	Continuous	[0.0, 1.0]
Explanation Utility	Explanation Completeness	Likert	5-point, 1: low, 5: high
	Explanation Coherence	Likert	5-point, 1: inconsistent, 5: consistent
	Explanation Usefulness	Likert	5-point, 1: low, 5: high
	Explanation Clarity	Likert	5-point, 1: low, 5: high
Covariates	TiA-Familiarity	Likert	1: unfamiliar, 5: very familiar
	TiA-Propensity to Trust	Likert	5-point, 1: tend to distrust, 5: tend to trust
	ATI	Likert	6-point, 1: low, 6: high
	ML Background	Category	{Yes, No}
Other	Feature Switch	Continuous	[0.0, 3.0]
	Confidence	Likert	5-point, 1: inconfident, 5: confident
	User Engagement	Likert	5-point, 1: low, 5: high

2 ADDITIONAL RESULTS

In this section, we present the additional experimental results of our empirical study. Our code and data can be found at the OSF repository for the benefit of the community and in the spirit of open science.¹¹

2.1 Hypothesis Verification

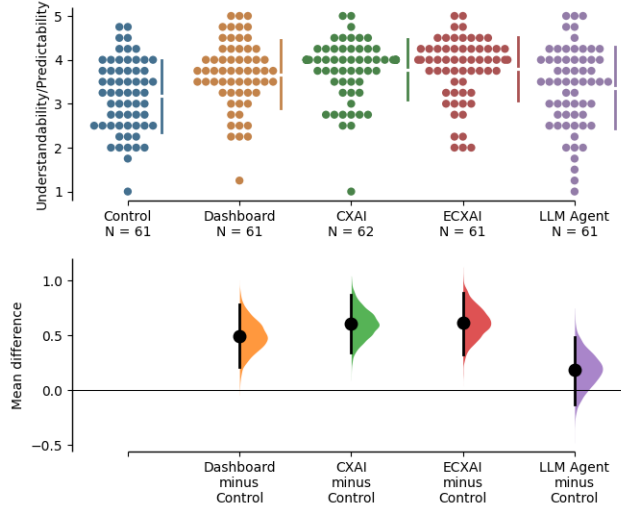
2.1.1 Further Analysis of H1: effect of XAI interfaces on user understanding. To further analyze the user understanding and perceived explanation utility across different experimental conditions, we calculate the mean and standard deviation for each group of participants with the XAI interface. The results are shown in Table 3. Participants with conversational XAI interfaces showed slightly better feedback in comparison to participants with XAI dashboard, in dimension *Perceived Feature Understanding*, *Learning Effect Across Tasks*, *Explanation Coherence*, and *Explanation Usefulness*.

¹¹https://osf.io/j8s69/?view_only=056d696cd8e648f0bab04bf0f3f6016e

Table 3. Mean value and standard deviation of user understanding and explanation utility for participants with XAI interfaces. The highest value for each dependent variable is labeled with bold font.

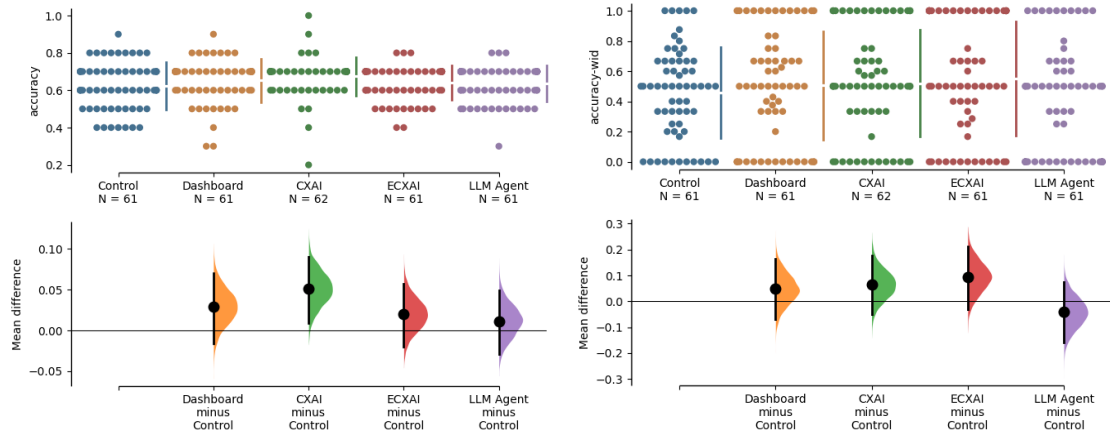
Dependent Variables	$M \pm SD$ (Dashboard)	$M \pm SD$ (CXAI)	$M \pm SD$ (ECXAI)	$M \pm SD$ (LLM Agent)
Perceived Feature Understanding	4.10 \pm 0.89	4.24 \pm 0.72	4.07 \pm 0.79	4.08 \pm 0.92
Objective Feature Understanding	0.88 \pm 0.07	0.88 \pm 0.08	0.87 \pm 0.09	0.84 \pm 0.06
Learning Effect across Tasks	3.93 \pm 0.87	4.06 \pm 0.77	4.03 \pm 0.73	3.79 \pm 1.00
Understanding of System	4.13 \pm 0.78	3.95 \pm 0.86	4.03 \pm 0.87	3.93 \pm 1.03
Explanation Completeness	3.60 \pm 0.67	3.56 \pm 0.72	3.53 \pm 0.64	3.60 \pm 0.77
Explanation Coherence	3.57 \pm 0.97	3.81 \pm 0.92	3.87 \pm 0.99	3.66 \pm 1.00
Explanation Clarity	4.02 \pm 0.83	4.02 \pm 0.76	4.02 \pm 0.83	3.98 \pm 0.83
Explanation Usefulness	3.95 \pm 0.75	4.09 \pm 0.67	4.02 \pm 0.59	3.99 \pm 0.77

2.1.2 *Further Analysis of H2: effect of XAI interfaces on user trust.* To better understand effect sizes in terms of the TiA-U/P and go beyond p -values, we adopted an estimation plot [3] (shown in Figure 3). As reflected by the swarm plot, participants with conversational XAI interface (*i.e.*, condition **CXAI** and **ECXAI**) exhibited a marginally higher TiA-U/P in comparison with condition **Dashboard**. Thus, we only found partial support for **H2**. However, condition **LLM Agent** showed slightly lower TiA-U/P compared to condition **Dashboard**. This goes contrast to our assumption of the boosting impact of conversational XAI interface and evaluative decision support on user trust. This is discussed in Section 6.2 (Why evaluative decision support does not work as expected) in our manuscript.

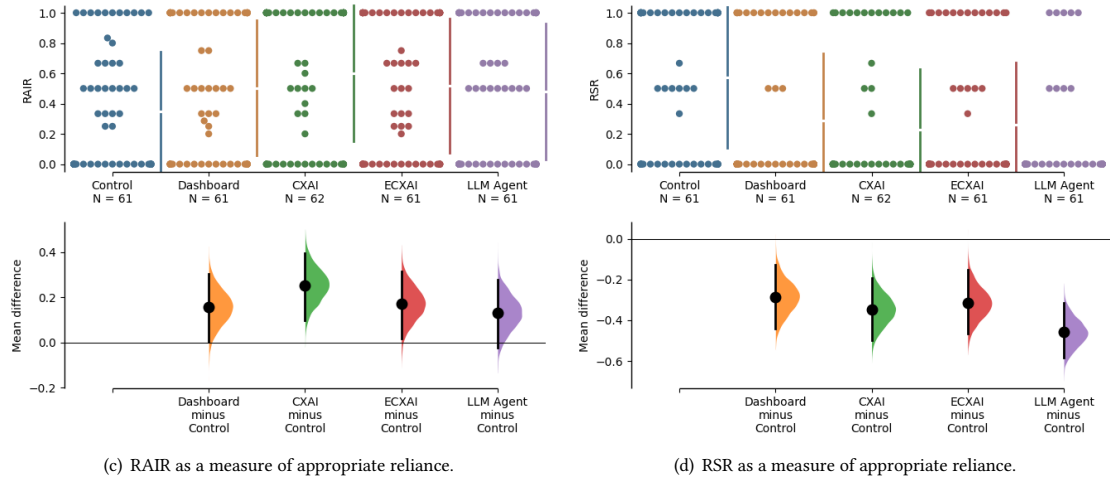

 Fig. 3. Estimation plot for TiA-U/P. The upper part shows the data point swarm plot, and the bottom part shows the sampled mean difference normal distribution in comparison to condition **Control**.

2.1.3 *Further analysis of H3 and H4: effect of XAI interfaces and evaluative decision support on appropriate reliance.* There is no significant difference in team performance (*i.e.*, *Accuracy* and *Accuracy-wid*). To interpret our data beyond p -values and better understand effect sizes in terms of the overall team performance, we adopted estimation plots [3], as shown in Figure 4. Jitter plots show the overall *Accuracy* (Figure 4(a)) and *Accuracy-wid* (Figure 4(b)), and how they distribute, across experimental conditions. Here, we use the no XAI interface as a control group in the plots to

make a comparison with all the other experimental conditions. We found that: (1) Compared to the **Control** condition, participants showed better accuracy in the **CXAI** condition, which is reflected by the mean difference distribution. (2) Participants in the **ECXAI** condition showed slightly better *Accuracy-wid* than the **Dashboard** condition and the **CXAI** condition. (3) Participants in condition **LLM Agent** showed a similar level of accuracy and even worse *Accuracy-wid* than condition **Control**.



(a) Accuracy as a measure of the team performance in decision-making. (b) Accuracy-wid as a measure of the team performance in decision-making.



(c) RAIR as a measure of appropriate reliance.

(d) RSR as a measure of appropriate reliance.

Fig. 4. Estimation plots (95% CI) of user performance and appropriate reliance across the five experimental conditions (including **LLM Agent** in the follow-up study).

Similarly, we adopted estimation plots [3] for appropriate reliance measures. Jitter plots show the overall *RAIR* (Figure 4(c)) and *RSR* (Figure 4(d)), and how they distribute, across experimental conditions. Here, we use the no XAI interface as a control group in the plots to make a comparison with all the other experimental conditions. We found that: (1) Compared to the **Control** condition, participants showed a significantly better distribution of *RAIR* in the **CXAI**

condition, which is reflected by the mean difference distribution. At the same time, participants in the condition **CXAI** showed a slightly better distribution of *RAIR* compared with participants in condition **Dashboard**, condition **ECXAI**, and condition **LLM Agent**. (2) Participants in the **Dashboard** and **ECXAI** condition showed slightly better *RSR* than the the **CXAI** condition. Participants in condition **LLM Agent** showed the worst *RSR*.

3 INTERFACE

In this section, we show the user interface for different experimental conditions.

Interfaces for condition **Control** can be found in Figure 2. In all experimental conditions with XAI interfaces, the left side of interface shows the decision task, while the right side show the XAI interfaces. One example for user interface in decision making with XAI dashboard can be found in Figure 5.

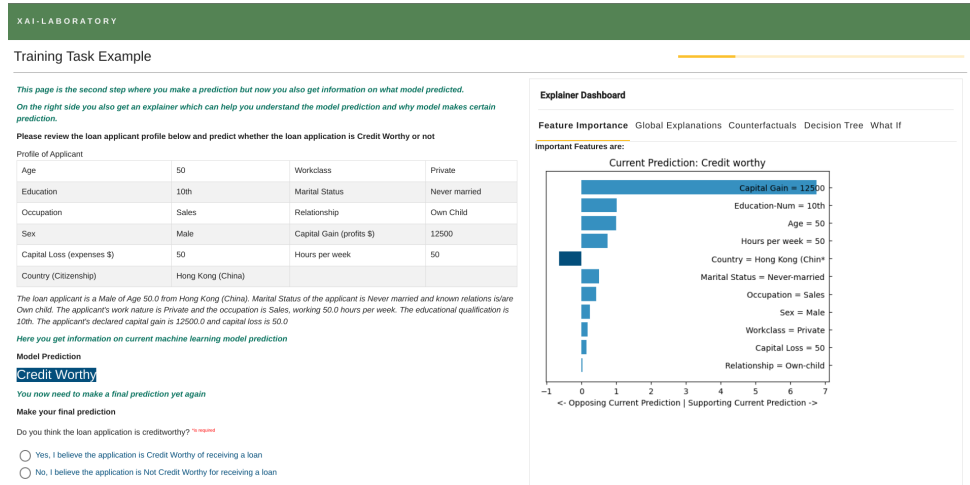
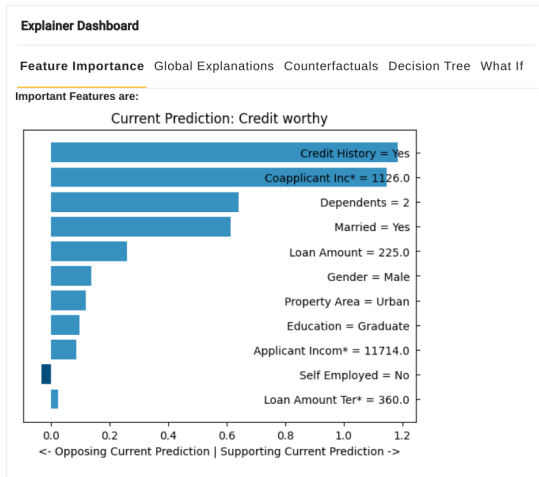


Fig. 5. User interface in decision making with XAI Dashboard.

We showed the five XAI response Interfaces for condition **Dashboard** in Figure 6. As the differences between condition **CXAI** and **ECXAI** are only the guiding text/framing, we only showed the five XAI response Interfaces for condition **ECXAI** in Figure 7. The conversational interface for condition **LLM Agent** is shown in Figure 8.



(a) XAI Dashboard with SHAP Response.

Explainer Dashboard

Feature Importance Global Explanations Counterfactuals Decision Tree What If

1 Profile

Gender * Male Married * Yes Dependents * 2

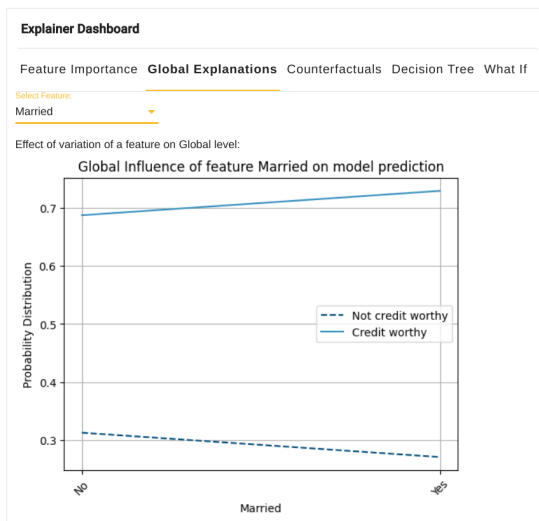
Education * Graduate Self Employed * No Applicant Income * 11714

Coapplicant Income * 1126 Loan Amount (k\$) * 225 Loan Amount Term (months) * 360

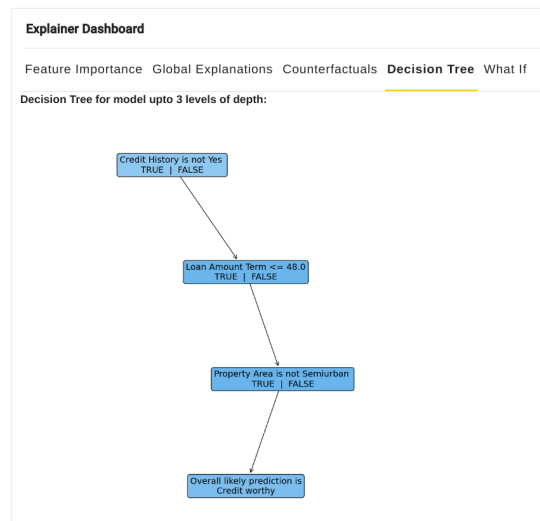
Credit History * Yes Property Area * Urban

Prediction: **Credit worthy** Get Explanations

(b) XAI Dashboard with WhatIf Response.



(c) XAI Dashboard with PDP Response.



(d) XAI Dashboard with Decision Tree Response.

Explainer Dashboard

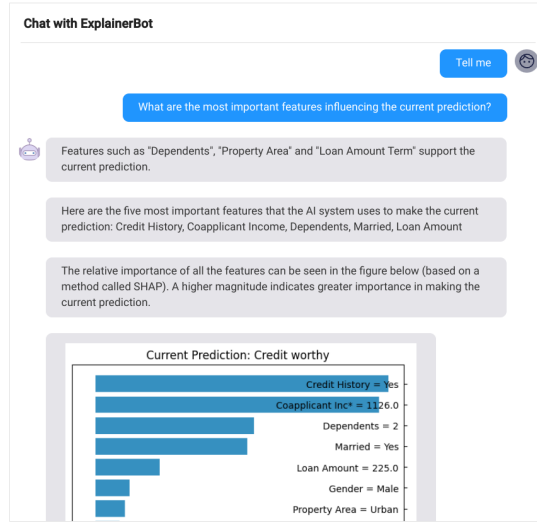
Feature Importance Global Explanations Counterfactuals Decision Tree What If

Prediction changes if values were tweaked to following:-

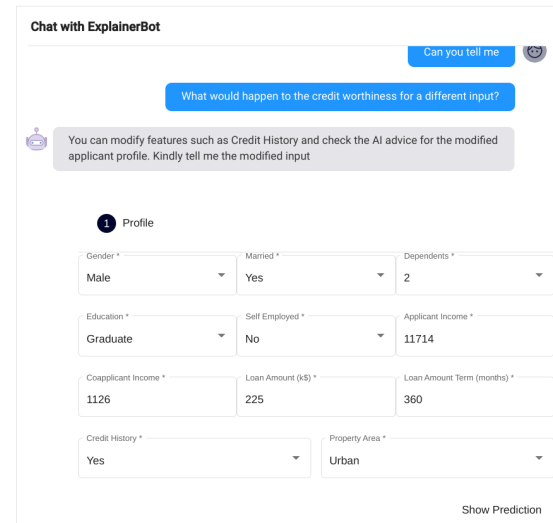
Credit History - No

(e) XAI Dashboard with MACE (counterfactual) Response.

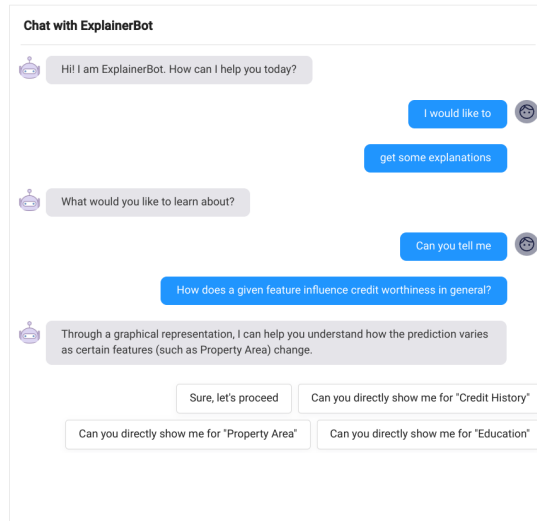
Fig. 6. Screenshots illustrating the XAI dashboard in condition **Dashboard**.



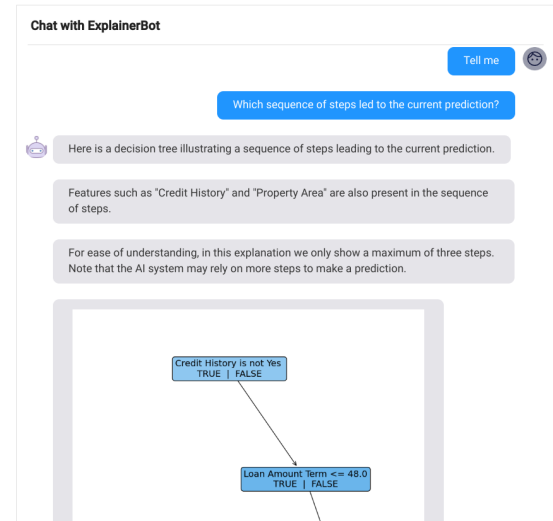
(a) Evaluative Conversational XAI interface with SHAP Response.



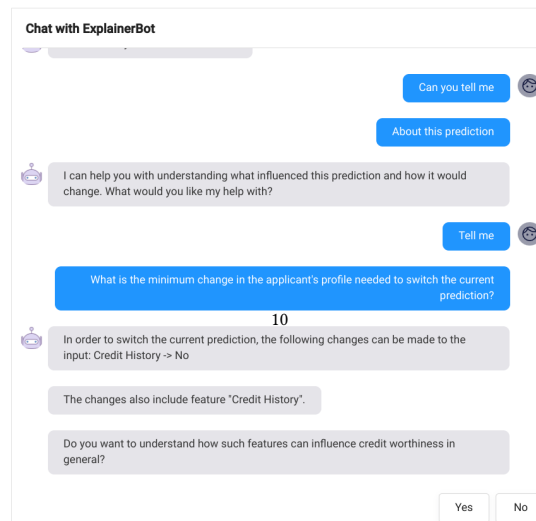
(b) Evaluative Conversational XAI interface with WhatIf Response.



(c) Evaluative Conversational XAI interface with PDP Response.

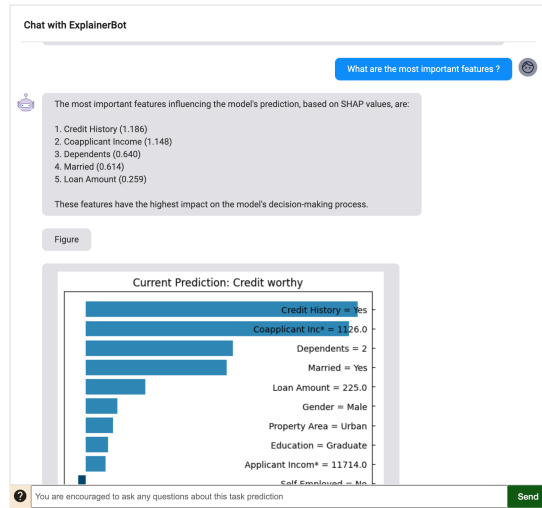
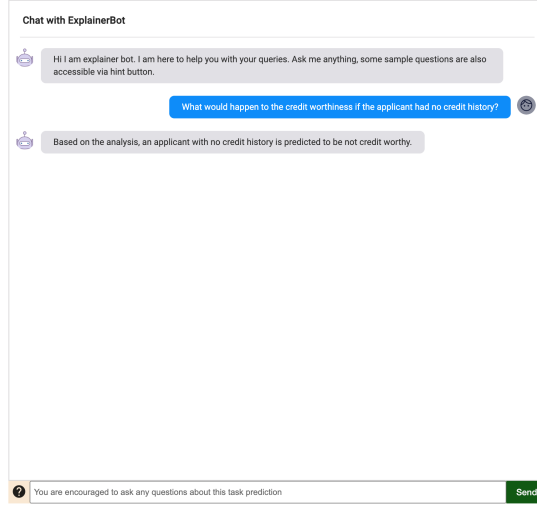
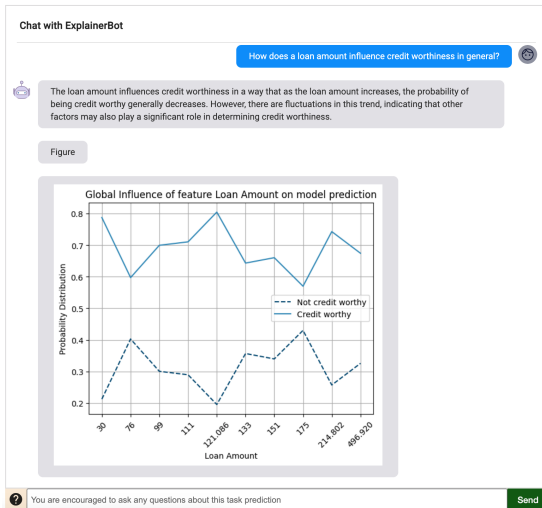
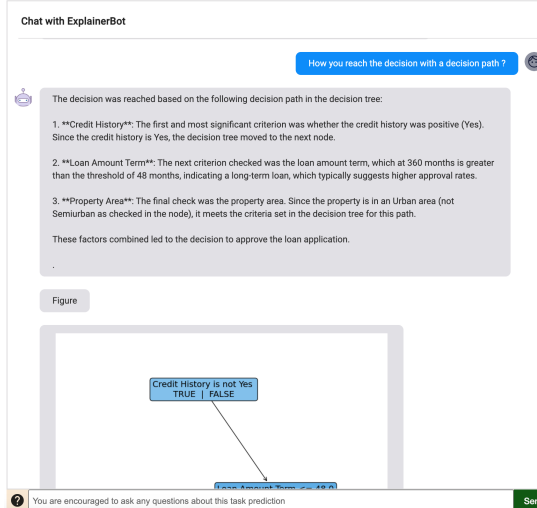
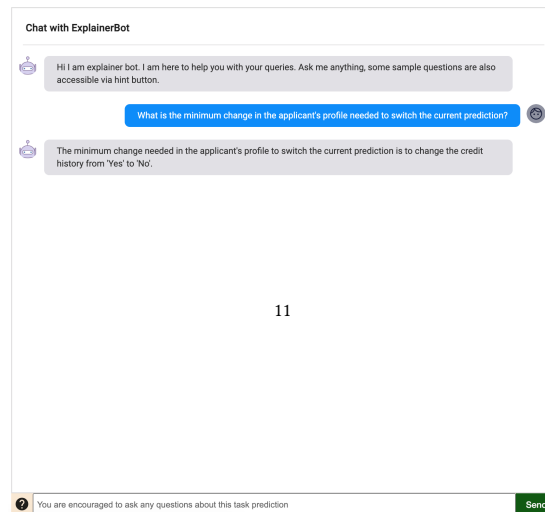


(d) Evaluative Conversational XAI interface with Decision Tree Response.



(e) Evaluative Conversational XAI interface with MACE (counterfactual) Response.

Fig. 7. Screenshots illustrating the Conversational XAI interfaces we designed.

(a) Conversational XAI interface (condition **LLM Agent**) with SHAP Re-
sponse.(b) Conversational XAI interface (condition **LLM Agent**) with WhatIf Re-
sponse.(c) Conversational XAI interface (condition **LLM Agent**) with PDP Response.(d) Conversational XAI interface (condition **LLM Agent**) with Decision Tree
Response.(e) Conversational XAI interface (condition **LLM Agent**) with MACE (count-
erfactual) Response.Fig. 8. Screenshots illustrating the Conversational XAI interfaces for condition **LLM Agent**.

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You are an XAI coordinator that plans how you can help explain a machine learning model's prediction
to answer user provided query. This can be done using available explanation methods.
2 You need to plan how you can use available explainers to answer the users question. The explainers
available are following:
    SHAP (Provide feature importance of different features on the current prediction of model)
4
    MACE (Provide counterfactual example of what changes to input can switch current prediction)
6
    PDP (Provide how value of outcome changes if certain feature value varies)
8
    Decision Tree (Provide a decision tree nodes on which conditions were used to make prediction)
10
    What If (Provide prediction for modified input values)
12
Provide step by step instruction and code for using these functions.
14
The model metadata is as follows:
16 {
    "featureLabels": [
18         "Gender",
        "Married",
20         "Dependents",
        "Education",
22         "Self Employed",
        "Applicant Income",
24         "Coapplicant Income",
        "Loan Amount",
26         "Loan Amount Term",
        "Credit History",
28         "Property Area"
    ],
30    "categoricalLabels": [
        "Gender",
32        "Married",
        "Education",
34        "Self Employed",
        "Credit History",
36        "Property Area",
        "Dependents"
38    ],
    "categoricalValues" : {
40        "Gender": ["Female", "Male"],
        "Married": ["Yes", "No"],
42        "Education": ["Graduate", "Not Graduate"],
        "Self Employed": ["Yes", "No"],
44        "Property Area": ["Rural", "Urban", "Semiurban"],
        "Credit History": ["Yes", "No"],
46        "Dependents": ["0", "1", "2", "3+"]
    },
48 }

```

Listing 1. System Prompt for XAI planner

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