

Code: A

Instruction:

1. This experiment is expected to take approximately 60-75 minutes to complete and should be followed in the following order:
 - a. Introduction (3-5 minutes)
 - b. Phase 1: Explanation (2,5 minutes) + Experiment without Proposed Framework (20 minutes)
 - c. Phase 2: Explanation (2,5 minutes) + Experiment with Proposed Framework (20 minutes)
 - d. Phase 3: Follow-up Interview (10-15 minutes)
2. The interviewer will provide an overview of the research goal and explain the tasks to the respondent.
3. The experiment consists of three sections:
 - a. Section 1: First experiment (using the framework given by the AI Act),
 - b. Section 2: 2nd experiment (using a decision tree (proposed framework) provided by the interviewer),
 - c. Section 3: Semi-structured interview (follow-up questions based on the previous sections)
4. In Section 1, each respondent will be presented with 8 use cases of AI systems. The respondent's task is to classify these AI systems into the four categories specified in the AI Act. To classify the AI systems, the respondent will be provided with references to Title II, Title III, Title IV, and Title IX of the EU AI Act.
5. In Section 2, each respondent will be given another set of 8 use cases of AI systems. The task remains the same: to classify these AI systems into the four categories mentioned in the AI Act. However, for this section, respondents are required to use a decision tree framework to determine the categorization of the AI systems.
6. In Section 3, the interviewer will ask several questions related to the results of Sections 1 and 2, or ask follow-up questions based on the respondent's choices.

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Section 1 (20 minutes)

1. Classify 8 use cases below to 4 categories: Prohibited Risk, High-Risk, Limited Risk, No Risk.
2. Classify those cases using your understanding of the given AI Act Articles.

Case 1:

AI system to filter unwanted mails and keep them separated from useful emails to reduce time and effort.

- a. Prohibited Risk
- b. High-Risk
- c. Limited Risk
- d. No Risk

Case 2:

AI system use emotion recognition system to identify/recognize patient's emotion.

- a. Prohibited Risk
- b. High-Risk
- c. Limited Risk
- d. No Risk

Case 3:

AI system to measure a truck driver's fatigue and playing a sound to push them to drive longer.

- a. Prohibited Risk
- b. High-Risk
- c. Limited Risk
- d. No Risk

Case 4:

AI systems designed for social robots for children with autism to capture their behavior to assist treatment.

- a. Prohibited Risk
- b. High-Risk
- c. Limited Risk
- d. No Risk

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Section 2 (20 minutes)

1. Classify 8 use cases below to 4 categories: Prohibited Risk, High-Risk, Limited Risk, No Risk.
2. Classify those cases using the given decision tree (framework)

Case 5:

AI systems for automatic transcription or enhancement of speech.

- a. Prohibited Risk
- b. High-Risk
- c. Limited Risk
- d. No Risk

Case 6:

AI systems to assess recidivism risk by providing quantitative risk assessments.

- a. Prohibited Risk
- b. High-Risk
- c. Limited Risk
- d. No Risk

Case 7:

AI systems using remote biometric identification of political protesters creates a significant chilling effect on the exercise of freedom of assembly and association.

- e. Prohibited Risk
- a. High-Risk
- b. Limited Risk
- c. No Risk

Case 8:

AI system that automatically converse with people in place for a human being and can interact with them.

- f. Prohibited Risk
- d. High-Risk
- e. Limited Risk
- f. No Risk

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Section 3 (10-15 minutes)

Decision Tree/Classification Process

1. With the given decision tree framework, does it help to categorize the AI systems? Yes/No, why?
2. How did your perception or understanding of the AI systems change after using the classification framework?
3. In your opinion, what were the strengths or weaknesses of the decision tree framework?
4. Is the step by step in the decision tree clear and easy to understand? Why?
5. Did the decision tree provide any additional insights or guidance in making your classifications?
6. Do you have any suggestions to improve the decision tree?

Use Cases

1. Were there any particular use cases that you found difficult to classify, either with or without the framework? If so, why?
2. Which cases do you think are the easiest to classify? Why?
3. What challenges or difficulties did you encounter while classifying the AI systems?