

SafeAI Academy: Enhancing AI Safety Awareness through Interactive Learning *

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Abstract

SafeAI Academy is an interactive educational platform designed to teach AI safety principles through engaging scenarios and quizzes. By simulating real-world AI challenges, users learn about bias, misinformation, and ethical AI decision-making. The platform utilizes gamified learning techniques, real-world case studies, and a mentorship-driven pedagogy to ensure accessibility and engagement. This paper outlines the platform's methodology, pedagogical approach, and its impact on AI safety education.

Keywords: AI safety education, learning platforms, interactive learning, curriculum design, educational games, knowledge assessment, mentorship systems, user engagement

1. Introduction

1.1. Problem Statement

AI systems are becoming increasingly powerful and integrated into critical decision-making processes. However, there is a significant gap in AI safety awareness among developers, businesses, and the general public. Many existing AI education platforms rely on passive learning, making it difficult to effectively teach ethical and responsible AI usage.

1.2. Background and Motivation

Existing AI safety education methods primarily consist of theoretical content delivered through online courses, research papers, and technical blogs. While these resources provide valuable insights, they lack interactivity and engagement. SafeAI Academy addresses this gap by introducing an interactive platform that fosters experiential learning through decision-based scenarios and quizzes.

1.3. Threat Model and Safety Implications

The primary AI safety risks addressed in this project include:

- **Bias in AI Models:** Users explore real-world AI bias scenarios and decision-making impacts.
- **Misinformation Spread:** Interactive exercises highlight the dangers of unverified AI-generated content.

*Research conducted at the Women in AI Safety Hackathon, 2025

- **Ethical AI Development:** Learners are guided through dilemmas to encourage responsible AI design.

SafeAI Academy contributes to AI safety by raising awareness of these risks and training users to recognize and mitigate them.

2. Methods

2.1. Approach

SafeAI Academy employs a structured, gamified learning approach that emphasizes active participation. The core methodologies include:

- **Scenario-Based Learning:** Users engage with real-world AI challenges.
- **Immediate Feedback:** Users receive explanations for incorrect answers in quizzes to reinforce learning.
- **Scaffolded Learning:** Concepts build upon each other to ensure gradual skill development.

2.2. Implementation

Technology Stack:

- **Frontend:** React (hosted on GitHub Pages)
- **Styling:** Custom CSS
- **Data Storage:** JSON-based structure for quizzes and scenarios
- **Interactive Components:** Built with React Hooks for seamless user experience

The platform ensures accessibility and user engagement by providing a clear, structured, and user-friendly interface.

3. Results

3.1. Analysis and Findings

SafeAI Academy was evaluated based on the following engagement metrics:

- **User Completion Rate:** Users voluntarily reattempted quizzes, showing increased motivation.
- **Time Spent on Scenarios:** Indicating active participation rather than passive content consumption.
- **User Feedback:** Learners reported increased confidence in understanding AI safety risks.

The real-time feedback mechanism encouraged users to engage with the material actively rather than experiencing test anxiety.

3.2. Impact Assessment

The platform successfully provides:

- An engaging, low-stress AI safety education method.
- A structured learning path for understanding AI risks.
- An accessible and scalable approach to AI safety awareness.

Future improvements will focus on integrating certification systems and expanding educational content.

4. Discussion and Conclusion

SafeAI Academy demonstrates the potential of interactive learning in AI safety education. By integrating real-world scenarios, gamification, and structured learning paths, the platform provides an engaging alternative to traditional AI safety courses. Future research will explore additional AI safety topics and methods for enhancing user engagement through AI-driven personalized learning suggestions.

5. References

- Source: 2023 Expert Survey on AI Progress (Wikipedia, AI Safety)
- Source: 2022 NLP Community Survey (Wikipedia, AI Safety)
- Source: Stanford AI Index Report 2023