# Analyzing and Developing Responsible Guidelines for Generative Image Al Tools

### **Project Objectives**

- 1. **Tool Analysis**: Compare two popular generative image AI tools in terms of their functionality, accessibility, and potential for misuse.
- 2. **Identify Unethical Uses**: Assess and document scenarios where these tools could be misused, such as for misinformation, deepfakes, privacy invasion, or unauthorized manipulation.
- 3. **Develop a Responsible Use Guide**: Based on findings, create a set of guidelines for ethical and responsible use of generative image AI tools, targeting both users and developers.

### **Phases of the Project**

### **Phase 1: Tool Selection and Familiarization**

- 1. **Select Tools**: Choose two generative image AI tools with significant usage and accessibility, such as OpenAI's DALL-E and Canva's Dream Lab.
- 2. **Functionality Overview**: Document each tool's features, input/output formats, content filters, and user interface.
- 3. **Usage Policies Review**: Investigate each tool's terms of service, ethical guidelines, and safety protocols, focusing on limitations in place to prevent misuse. Identify training datatsets used for Al model.

#### Phase 2: Identification of Unethical Use Cases

- Scenario Development: Identify and document potential cases of misuse, including but not limited to:
  - Creation of deepfakes for disinformation
  - o Unauthorized use of real individuals' likenesses
  - o Generation of harmful, biased, or inappropriate content
- 2. **Experimentation**: Test the tools within ethical and safe limits to observe the ease of generating such images and analyze built-in safeguards.

3. **Data Collection**: Record instances where the tool's content filters fail or successfully block misuse, highlighting gaps in current protection measures.

# **Phase 3: Ethical Analysis**

- 1. **Framework Comparison**: Compare results against existing ethical frameworks, such as the IEEE's guidelines for ethical AI use, and general responsible innovation principles.
- 2. **Stakeholder Impact Assessment**: Identify stakeholders (artists, users, developers, organizations, public) and assess how unethical use could impact each group.

# Phase 4: Development of a Responsible Use Guide

- 1. **Guideline Formation**: Use insights develop a guide with:
  - o Best practices for users and developers to avoid unethical use
  - Recommended enhancements for tool developers to increase safeguards
  - o Tips for organizations on responsible AI deployment
- 2. **Format**: Create a concise document with guidelines, visuals, and scenario-based examples of ethical vs. unethical use.

## **Phase 5: Create Guidelines and Finalize Report**

- 1. **Create Guidelines**: Create a simple, front end website to display findings for responsible use from findings.
- 2. **Finalize Report**: Compile all information into a final report and complete presentation.

### **Expected Outcomes**

- **Detailed Analysis**: Comprehensive comparison of two generative image Al tools and their vulnerabilities to unethical use.
- **Responsible Use Guide**: A practical guide for users, developers, and organizations outlining best practices for ethical image generation with AI.
- **Recommendations**: Concrete suggestions for developers and users to implement additional safeguards.

This design allows a structured, ethically sensitive approach to assessing the risks of generative image AI tools while creating resources to encourage responsible use.