

# VISUPOET

AI-Enhanced Inclusive Poetry



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# PROBLEM IDENTIFICATION

# Understanding the problem: Do blind people visualise images or metaphors?

**Yes**, blind individuals can imagine images described in a poem,  
**BUT** the way they do so may differ based on whether they were

**GROUP A: born blind or**

**GROUP B: became blind later in life**

**TARGET GROUPS**

# Blindness

## Born blind

### 1. Multi-Sensory Descriptions:

Descriptions that engage the *senses other than sight*

### 2. Analogous Experiences:

Relating it to *their own experiences*

### 3. Conceptual Understanding:

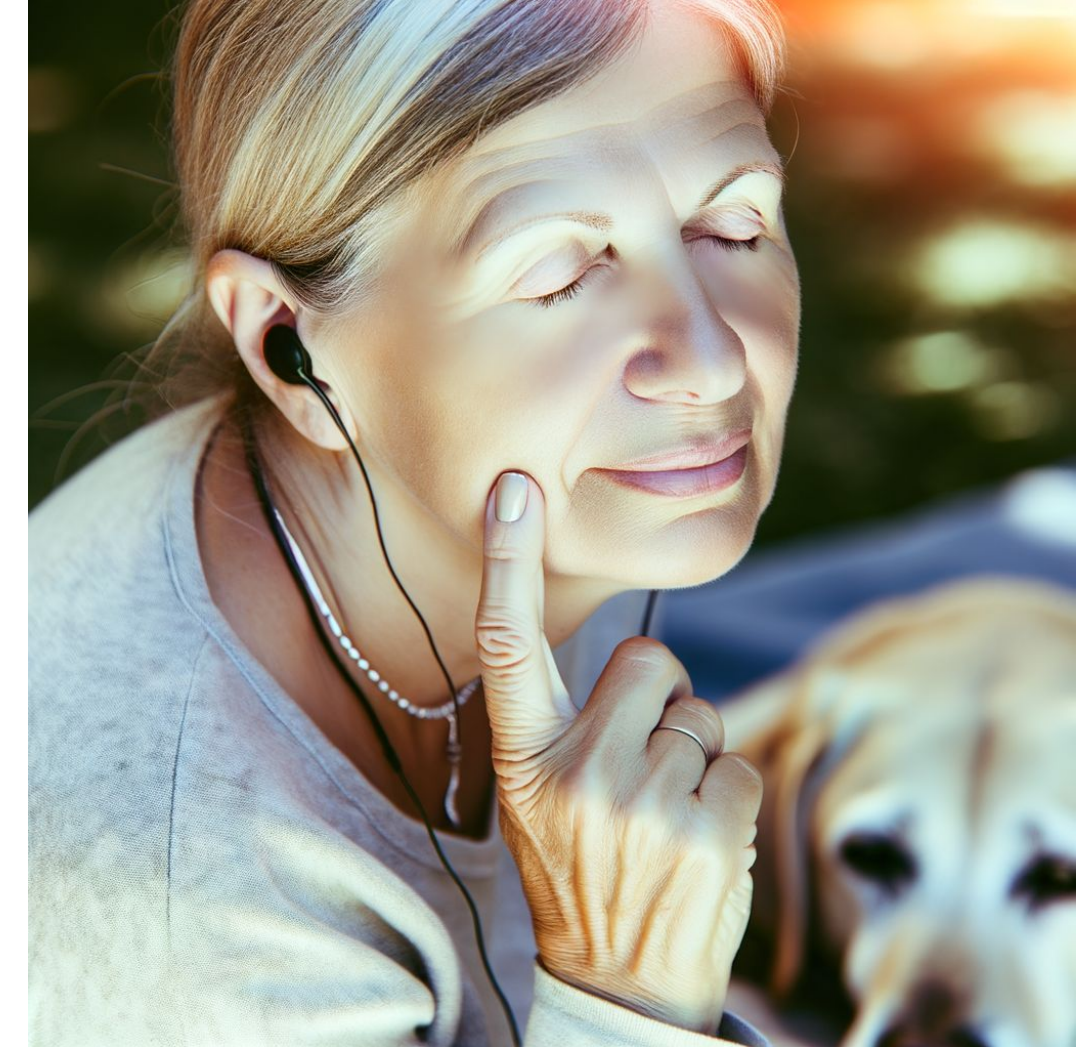
Mental images based on a conceptual understanding of the world,

Relying on descriptions and analogies provided by others

## Became blind later in life

### 1. Visual Memory

### 2. Enhanced Sensory Imagination: their visual memories + text enhanced sensory descriptions





# People With Other Disabilities

1. Easy-language
2. Deafness
3. People with other disabilities



# AI-ENHANCED COLLABORATIVE SOLUTION

# VisuPoet Concept

## AI-Enhanced Inclusive Poetry Platform for Blind Disabled

**VisuPoet** is a platform designed to help poets write **inclusive poetry** that vividly describes imagery and metaphors, making it **accessible to blind or visually impaired** individuals. The system leverages an LLM to assist poets in creating rich, sensory descriptions that evoke clear mental images, ensuring that everyone can appreciate the visual aspects of the poetry.



**HOW** to help a user understand what a blind person might perceive from imagery and metaphors?

An LLM can assist in multiple ways.

The approach involves guiding the user to **use descriptions that engage all senses, provide context, and create relatable experiences.**

# **Solution Key Features**

## **LLM ASSISTANCE STRATEGY**

- 1. Sensory Descriptive Tools**
- 2. Inclusivity Feedback**
- 3. Visualisation Narration**
- 4. Collaborative Refinement**



# **Steps to make a poem inclusive for blind readers**

- 1. Understand the context and goal.**
- 2. Suggest sensory enhancements.**
- 3. Relate to universal experiences.**
- 4. Feedback and refinement.**

# 1. Understand the Context and Goal:

Ask for the **theme or emotion** the user wants to convey.

Determine the **key elements** of the imagery or metaphors in the poem.

# 2. Suggest Sensory Enhancements:

Provide suggestions to incorporate **sensory details** other than sight (sound, touch, smell, taste).

Ensure descriptions are rich enough to evoke a mental image through these senses.

# 3. Relate to Universal Experiences:

Encourage the use of metaphors and similes that draw on **common experiences**.

Make suggestions to frame imagery in terms of **shared human experiences**.

# 4. Feedback and Refinement:

Offer feedback on specific lines, focusing on **clarity** and **sensory richness**.

Suggest **alternatives** for visual metaphors that might not be as relatable.



# Example of VisuPoet in Action

## Step-by-Step Guidance

Step 1: User Sets the Topic for The Poem

Step 2: LLM Asks For More Context (tone, mood, inclusive for what group)

Step 3: LLM Gives Suggestions

Step 4: User Reviews and Accepts Suggestions / User Writes A Poem Line

Step 5: LLM Provides Descriptive Feedback And Enhancements

Step 6: User Incorporates Feedback

Step 7: Inclusivity Check and Feedback

Step 8: User Exports The Final Poem Or The Dialogue