# AI-Powered Public Speaking Training Platform

## Reference & Inspiration

Watch this reference video to understand the inspiration behind this app: YouTube Link.
(Note: The original app is not AI-powered—you are encouraged to develop an **AI-enhanced** version.)

## Context

Public speaking is a crucial skill for professional growth. Your challenge is to build an **interactive, AI-powered training platform** that helps users enhance their speaking abilities through **gamified, real-time feedback-driven exercises**.

## Project Overview

Create a web-based application that implements three core speaking exercises, enhanced with AI capabilities:

### 1. Rapid Fire Analogies

Build an exercise where users complete analogies within a 5-second window. The system should:

- Present incomplete analogies (e.g., "Success is like _____")
- Record and process user responses in real-time
- Implement an AI scoring system that evaluates:
    - Response timing
    - Speech continuity
    - Analogy relevance and creativity

### 2. Triple Step

Develop a focus-building exercise where users must maintain coherent speech while handling visual distractions. The system should:

- Display a main speaking topic
- Generate contextually relevant distractor words

- Use AI to:
    - Monitor speech coherence
    - Analyze topic adherence
    - Evaluate handling of distractions
    - Generate meaningful distractor words based on the main topic

### 3. Conductor

Create an exercise for improving vocal variety and expression. The system should:

- Guide users through different energy levels and moods
- Implement real-time voice analysis to:
    - Track energy levels
    - Analyze vocal variety
    - Provide instant feedback on mood matching
    - Generate personalized improvement suggestions

## Technical Challenge

Your primary challenge is to integrate AI capabilities to:

1. Process and analyze speech in real-time
2. Generate contextually relevant prompts and distractors
3. Provide intelligent scoring and feedback
4. Create an adaptive difficulty system
5. Implement natural language understanding for response evaluation

## Expected Outcome

A functional prototype demonstrating:

- Real-time speech processing
- AI-powered feedback and scoring
- Interactive user interface for all three exercises
- Basic analytics dashboard for tracking progress

## Innovation Opportunities

- Implement emotion detection in speech
- Create personalized exercise progression
- Develop AI-powered speaking coaches for each exercise
- Design intelligent prompt generation systems
- Build advanced speech analytics capabilities