

**EX NO : 8 EXPLORATION OF PROMPTING TECHNIQUES FOR AUDIO GENERATION**

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**AIM**

To explore how various prompting techniques can be used to generate and manipulate audio content (e.g., speech narration) using an AI model.

**TOOLS USED**

- **ElevenLabs – AI Text-to-Speech Engine**  
A state-of-the-art AI voice synthesis tool that creates realistic human-like speech using advanced prompt-based inputs. Offers voice cloning, emotion control, and multilingual support.

**PROMPTING TECHNIQUES APPLIED**

We tested **five distinct prompt types** with selected voices and tones to examine how prompt structure and emotional intent impact audio quality and realism.

**PROMPT DETAILS**

PROMPT TYPE	PROMPT	VOICE USED	TONE SELECTED
Emotional	“Even in the darkest moments, remember – hope is just around the corner.”	Female – Bella	Calm, Warm
Instructional	“Please fasten your seatbelt and keep your hands inside the vehicle at all times.”	Male – Josh	Clear, Formal
Narrative	“In a quiet village nestled among the hills, lived an old clockmaker with a magical secret.”	Female – Emma	Storyteller

<b>Motivational</b>	“You are stronger than your fears. Keep moving forward, no matter what.”	Male – Adam	Bold, Inspiring
<b>Advertisement</b>	“Discover freshness like never before – try our new eco-clean spray today!”	Female – Rachel	Friendly, Energetic

## PROCEDURE

1. Opened ElevenLabs Studio and selected appropriate prebuilt or custom voices.
2. Inserted each prompt with a matching tone setting (calm, formal, inspiring, etc.).
3. Adjusted advanced parameters: **stability**, **style exaggeration**, and **clarity**.
4. Previewed outputs and exported final high-quality audio files for documentation.

## ANALYSIS TABLE

PROMPT TYPE	VOICE USED	tone selected	OBSERVATIONS (AUDIO OUTPUT)
Advertisement	Female – Rachel	Friendly	Clear, engaging, enthusiastic. Ideal for marketing.
Emotional	Female – Bella	Calm, Warm	Soft, empathetic. Evoked emotional depth.
Instructional	Male – Josh	Formal	Precise and authoritative. Suitable for PA systems.
Narrative	Female – Emma	Storyteller	Rich expression, great pacing. Added dramatic storytelling feel.

Motivational

Male – Adam

Confident

Powerful and inspiring delivery. Effective for speeches.

## **OUTPUT**

### **SUPPORTING MATERIALS:**

The generated audio files corresponding to each prompt type have been compiled and are available via the following Drive link: [📁 PromptEngineering-Ex:No:7](#)

### **A. AUDIO DELIVERABLES**

- Five AI-generated audio files, each corresponding to the different prompts and use cases.

### **B. OBSERVATIONS**

- Matching tone with message intent improves clarity and listener engagement.
- Female voices better suited for emotional and storytelling; male voices excelled in formal and motivational contexts.
- Adding stylistic details to prompts significantly improved expression and pacing.

### **C. OPTIMIZATION STRATEGIES**

- Use emotionally descriptive adjectives in prompts.
- Select voice and tone based on context and audience.
- Adjust style exaggeration for stronger emphasis where needed.

## **RESULT**

This experiment successfully demonstrated that **voice selection**, **tone setting**, and **prompt specificity** dramatically influence the realism and effectiveness of AI-generated audio using ElevenLabs. It validated that using **emotionally aware and context-specific prompts** produces highly targeted and professional-sounding results for narration, announcements, and storytelling.

