Exp No. 9 – Exploration of Prompting Techniques for Video Generation

Register No.: 212223050012
Name: Dhruv D Mehta

AIM

To explore and understand various prompting techniques used for generating and manipulating video content using AI video-generation models.

ALGORITHM

1. Explore available AI video generation tools.
2. Create simple prompts to generate basic videos.
3. Enhance prompts with details about environment, lighting, and action.
4. Add camera motion and timing effects.
5. Try different video styles (animation, cinematic, futuristic, artistic, etc.).
6. Generate multiple outputs and compare differences.
7. Save screenshots of generated videos.

PROCEDURE

1. Familiarizing With Video Generation Tools

Explored the following AI video generation platforms:

- Runway Gen-2
- Pika Labs
- Pictory
- DeepBrain
- Luma Dream Machine

Understood strengths, limitations, and ideal prompt structures.

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2. Simple Prompt Video Generation

Created a very basic prompt describing only the main subject and action.

Simple Prompt:
"Generate a short video of a car driving on a road."

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3. Detailed Prompt Video Generation

Added more visual information such as environment, lighting, and additional elements around the subject.

Detailed Prompt:
"Generate a video of a red car driving on a long empty highway during daylight, with mountains in the background and light wind blowing dust along the roadside."

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4. Motion / Camera Movement Prompt

Added cinematic camera actions, transitions, and environmental motion to increase visual realism.

Motion & Camera Prompt:
"Generate a cinematic video of a red car driving on a long empty highway during golden hour, with the camera slowly panning from the side to the front, capturing the sunlight reflecting on the car and the mountains gradually passing in the background."

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5. Style-Based Prompt (Animation / Cinematic / Futuristic)

Applied a stylistic theme to the same scenario while maintaining all previous details.

Style Prompt:
"Generate a highly cinematic, futuristic-style video of a red car driving on an empty neon-lit highway during golden hour, with glowing holographic signboards, reflections on the road surface, and the camera smoothly tracking the car from a low-angle side shot."

EXPECTED OUTPUT

Simple Prompt Output

Detailed Prompt Output

Motion/Camera Prompt Output

Style Prompt Output

RESULT

The prompting techniques for AI video generation were successfully explored. Different prompt styles produced different types of video outputs, demonstrating how prompt detail, style, and camera instructions influence the final video. The experiment was successfully completed.