Assignment 04: Assignment and Practice of SORA

# Task 1: Research & Summary

## What is SORA?

SORA is an advanced text-to-video artificial intelligence model developed by OpenAI. It generates realistic, high-quality videos directly from text prompts. What sets SORA apart is its ability to understand and simulate complex visual elements such as 3D camera movement, lighting, motion, and real-world physics. SORA brings static words to life, offering users the ability to create animations and videos with only a written description.

Comparison with DALL·E, Pika Labs, and RunwayML

While SORA focuses on video generation, DALL·E is a text-to-image model, also by OpenAI. DALL·E creates single-frame images from text but does not support motion or video creation. However, DALL·E is useful for generating keyframes or concepts which can be stitched together in apps like Canva or CapCut.

Pika Labs and RunwayML are alternatives for video generation. Pika Labs allows users to animate still images or prompts, offering a creative yet simple interface. RunwayML also provides video generation and editing tools with AI, although the results are less realistic than SORA. SORA is far ahead in realism, motion understanding, and scene coherence.

Ethical Considerations

The development of AI-generated videos brings important ethical concerns. Since these tools can create highly realistic content, they can also be misused to produce misinformation, deepfakes, or inappropriate visuals. SORA cannot be used to generate videos with real people’s identities or copyrighted content. Responsible use, transparency, and digital literacy are key to navigating this emerging field.

# Task 2: Prompt Engineering Practice

Here are 5 creative prompts across different domains:

## Education:

“A 10-second animation showing the stages of the water cycle—evaporation, condensation, precipitation, and collection—with moving clouds and flowing rivers.”

## Entertainment:

“A cartoon-style dragon cooking pancakes over a fire inside a cozy cave on a rainy day.”

## Environment:

“A plastic bottle drifting across an ocean with fish and turtles swimming around it, followed by a close-up of a coral reef.”

## Technology:

“A futuristic city with flying cars, glowing billboards, and robots helping humans on the streets at sunset.”

## History:

“An ancient Egyptian marketplace with camels, merchants, and pottery under the bright desert sun.”