

The `generate.py` utilizes the transformers library from Hugging Face and specifically uses the **OpenGVLab/InternVL2-26B** model for video generation. The video generated from a textual prompt is saved as a `.mp4` file.

Dependencies:

- transformers library
- torch (PyTorch) or other backend supported by Hugging Face
- sqlalchemy
- A compatible text-to-video model from Hugging Face

How the pipeline works

1. Define the Prompt: A text description of the video to be generated.
2. Load Pre-trained Model: The model is loaded based on the name defined in the configuration file.
3. Generate Video: The model generates the video based on the input text.
4. Save Video: The generated video is saved to an output file.

Configuration Fields:

- `model_name`: The name of the pre-trained model to use for video generation.
- `task_type`: Specifies the type of task the pipeline should perform. We have text-generation here.
- `prompt`: The text description that will be used to generate the video.
- `output_path`: The file path where the generated video will be saved.
- `trust_remote_code`: A setting that allows loading remote models that may contain custom code.

Run: **`python myenv/generate.py`**