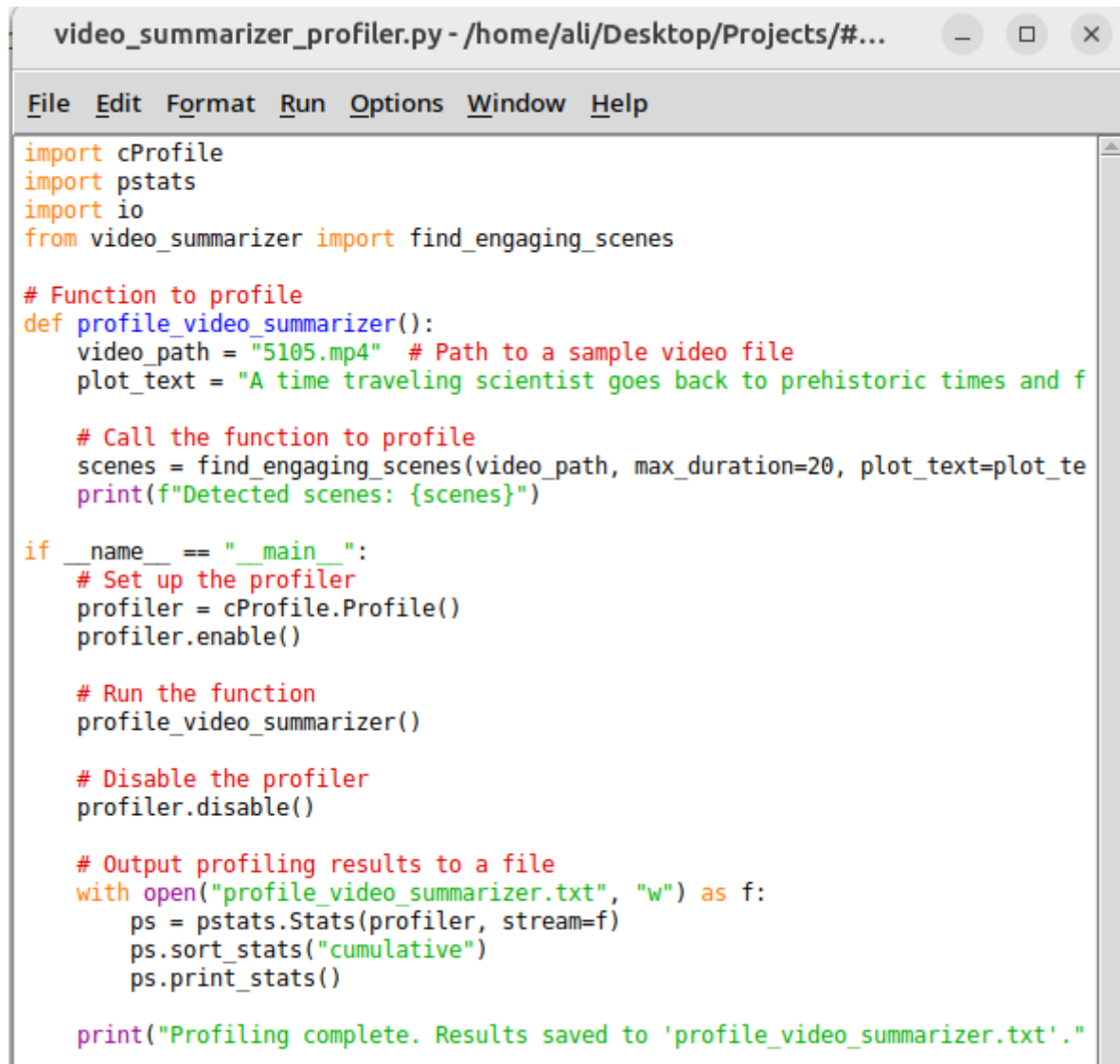


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Id: 1900881

Practical Assignment (1)



```
video_summarizer_profiler.py - /home/ali/Desktop/Projects/#...
File Edit Format Run Options Window Help

import cProfile
import pstats
import io
from video_summarizer import find_engaging_scenes

# Function to profile
def profile_video_summarizer():
    video_path = "5105.mp4" # Path to a sample video file
    plot_text = "A time traveling scientist goes back to prehistoric times and f

    # Call the function to profile
    scenes = find_engaging_scenes(video_path, max_duration=20, plot_text=plot_te
    print(f"Detected scenes: {scenes}")

if __name__ == "__main__":
    # Set up the profiler
    profiler = cProfile.Profile()
    profiler.enable()

    # Run the function
    profile_video_summarizer()

    # Disable the profiler
    profiler.disable()

    # Output profiling results to a file
    with open("profile_video_summarizer.txt", "w") as f:
        ps = pstats.Stats(profiler, stream=f)
        ps.sort_stats("cumulative")
        ps.print_stats()

    print("Profiling complete. Results saved to 'profile_video_summarizer.txt'.")
```

CSE433, Software Performance Evaluation, FALL 24

```
actual length: 140.32      end: 138.7386
MoviePy - Writing audio in /tmp/tmp09u6440.wav
.chunk: 0% | 0/1 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.10563333333334
MoviePy - Writing audio in /tmp/tmp361uu0lk.wav
.chunk: 0% | 0/9 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.17236666666668
MoviePy - Writing audio in /tmp/tmp1r2q4nbq.wav
.chunk: 0% | 0/2 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.20573333333334
MoviePy - Writing audio in /tmp/tmp1mqm9y2.wav
.chunk: 0% | 0/1 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.28573333333334
MoviePy - Writing audio in /tmp/tmp9l5S85dt.wav
.chunk: 0% | 0/2 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.4393
MoviePy - Writing audio in /tmp/tmp5306ise.wav
.chunk: 0% | 0/4 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.5394
MoviePy - Writing audio in /tmp/tmp1n5yu2nf.wav
.chunk: 0% | 0/3 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.70623333333333
MoviePy - Writing audio in /tmp/tmpu8autdx.wav
.chunk: 0% | 0/4 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.77296666666666
MoviePy - Writing audio in /tmp/tmpuvmgp6p2.wav
.chunk: 0% | 0/2 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.8397
MoviePy - Writing audio in /tmp/tmpweiglbn.wav
.chunk: 0% | 0/2 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.87396666666666
MoviePy - Writing audio in /tmp/tmpups9rff.h.wav
.chunk: 0% | 0/1 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.90643333333333
MoviePy - Writing audio in /tmp/tmp1ig3p9ta.wav
.chunk: 0% | 0/1 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 139.9398
MoviePy - Writing audio in /tmp/tmp1i54qbn.wav
.chunk: 0% | 0/1 [00:00<7, 7it/s, now=None]
MoviePy - Done.
actual length: 140.32      end: 140.00653333333332
MoviePy - Writing audio in /tmp/tmp8uql6292.wav
.chunk: 0% | 0/2 [00:00<7, 7it/s, now=None]
MoviePy - Done.
Detected scenes: [(0, 0.3336666666666667), (0.3336666666666667, 0.40040000000000003), (0.40040000000000003, 0.4337666666666667), (0.4337666666666667, 0.46713333333333334), (0.46713333333333334, 0.50050000000000001), (0.50050000000000001, 2.0687333333333333), (2.0687333333333333, 2.3023000000000002), (2.3023000000000002, 2.3356666666666666), (2.3356666666666666, 2.4024), (2.4024, 2.4357666666666667), (2.4357666666666667, 2.4691333333333333), (2.4691333333333333, 2.5025), (2.5025, 3.9372666666666667), (3.9372666666666667, 5.338666666666667), (5.338666666666667, 6.9069), (6.9069, 8.4084), (8.4084, 10.410400000000001), (10.410400000000001, 12.4124), (12.4124, 14.481133333333334), (14.481133333333334, 15.1351), (15.1351, 35.16046666666667), (35.16046666666667, 37.6376), (37.6376, 38.37166666666667), (38.37166666666667, 44.844900000000004), (44.844900000000004, 63.83043333333333), (63.83043333333333, 76.24283333333334), (76.24283333333334, 77.0771), (77.0771, 106.73996666666667), (106.73996666666667, 107.2071), (107.2071, 130.8307), (130.8307, 134.10736666666668)]
Profiling complete. Results saved to 'profile_video_summarizer.txt'.
```

← → ↺

127.0.0.1:3080/snakeviz/%2Fhome%2Ffal%2FDesktop%2FProjects%2F%2303%20WasReleasedToday%2FSPE%2Fprofile_video_summarizer.prof

☆ 📄 🌐

SnakeViz

Reset Root

Reset Zoom

Style:

Icicle

Depth:

10

Cutoff:

1 / 1000

Call Stack

serialization.py:1794(persistent_load)
0.618 s

serialization.py:1794(persistent_load)
0.618 s

Search:

ncalls

tottime

percall

cumtime

percall

filename:lineno(function)

2

Search:

ncalls	tottime	percall	cumtime	percall	filename:lineno(function)
114/111	0.3622	0.003263	0.3658	0.003295	~0(<built-in method _imp.create_dynamic>)
3336	0.2364	7.087e-05	0.2364	7.087e-05	~0(<built-in method marshal.load>)
5475/0	0.1644	0	0	0	~0(<built-in method builtins.exec>)
9184/8953	0.0955	1.067e-05	0.7497	8.374e-05	~0(<built-in method builtins._build_class_>)
257	0.08075	0.0003142	0.08105	0.0003154	module.py:473(__init__)
312	0.07293	0.0002338	0.08548	0.000274	~0(<method 'to' of 'torch._C.TensorBase' objects>)
8271	0.06503	7.863e-06	0.06686	8.083e-06	<frozen importlib._bootstrap>:645(parent)
445796/443030	0.05692	1.285e-07	0.06439	1.453e-07	~0(<built-in method builtins.isinstance>)
18174	0.05333	2.934e-06	0.05341	2.939e-06	~0(<built-in method posix.stat>)
2140	0.05277	2.466e-05	0.1085	5.07e-05	_ops.py:1047(__getattr__)
7180	0.05058	7.044e-06	0.09376	1.306e-05	inspect.py:875(cleandoc)
246365/246293	0.04686	1.903e-07	0.1133	4.6e-07	~0(<built-in method builtins.getattr>)
3336	0.04617	1.384e-05	0.2853	8.551e-05	<frozen importlib._bootstrap_external>:751(_compile_bytecode)
27050	0.03942	1.457e-06	0.03942	1.457e-06	~0(<built-in method posix.lstat>)
8313	0.038	4.571e-06	0.038	4.571e-06	<frozen importlib._bootstrap>:790(__init__)
3338	0.03538	1.06e-05	0.03538	1.06e-05	~0(<built-in method _io.open_code>)
192937	0.03377	1.75e-07	0.03377	1.75e-07	~0(<method 'startswith' of 'str' objects>)
34730/33064	0.03017	9.125e-07	0.05373	1.625e-06	~0(<built-in method __new__ of type object at 0xa43b40>)
8313	0.03	3.609e-06	0.1229	1.478e-05	<frozen importlib._bootstrap>:304(acquire)
2152/559	0.02969	5.311e-05	0.08804	0.0001575	_parser.py:512(_parse)
28271	0.029	1.026e-06	0.04864	1.721e-06	<frozen posixpath>:71(join)
4478	0.02897	6.47e-06	0.126	2.813e-05	<frozen importlib._bootstrap_external>:1593(find_spec)
332116/327880	0.0282	8.601e-08	0.02906	8.862e-08	~0(<built-in method builtins.len>)