nvidia-smi (NVIDIA System Management Interface)

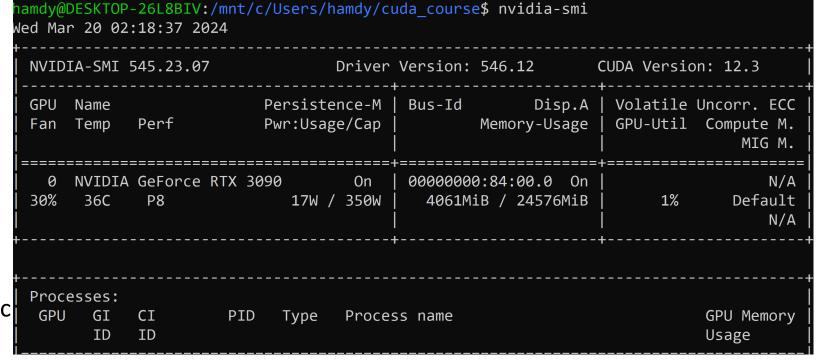
- Is a command-line utility, provided by NVIDIA.
- It offers monitoring and management of the GPUs.

nvidia-smi (NVIDIA System Management Interface)

- 3 Key features
 - Performance monitoring.
 - Utilization, memory usage, temperature

and power.

- Settings management.
 - Controlling the clock speed and power limits.
- Device information querying.
 - GPU name, driver version ,,, etc



Necessary data to make informed decisions



nvidia-smi

nvidia-smi command:

Monitoring GPUs Continuously

nvidia-smi -l 5

Displaying Specific Information

nvidia-smi --query-gpu=gpu_name,driver_version,temperature.gpu --format=csv

Setting Power Limits

nvidia-smi -i 0 -pl 200

Permission mode

nvidia-smi pm -0

Saving Output to a File

nvidia-smi command:

To check the current clocks in use:

nvidia-smi -q -d CLOCK

To check all supported clocks that can be used

nvidia-smi -q -d SUPPORTED_CLOCKS

To determine certain clocks to be used:

nvidia-smi –application-clocks=1216,765

--reset-gpu-clocks