Second:

Graphics processing unit (GPU)

- A GPU (Graphics Processing Unit) handles graphics, images, and lots of small tasks at once.
- GPU is great for gaming ,AI, video ,science
- Made for parallel tasks and visual powe
- GPU uses:
- Renders images and videos (shows pictures, animations, and 3D graphics.)
- Accelerates gaming performance —(gives smoother and faster graphics.)
- Speeds up video editing (makes editing faster and smoother.)
- Helps in AI and machine learning —(trains models much faster.)
- Used in data science (processes lots of data at once.)
 - Image of a GPU:



- GPU: NVIDIA GTX 1660, 6 GB VRAM
- Types of GPU:

Integrated GPU:

Built into the CPU.

Uses system memory

Good for basic tasks (browsing, watching videos).

Dedicated GPU:

Separate from the CPU

Has its own memory.

More powerful – good for gaming, AI, editing.

• KEY PARTS of a GPU:

Cores: Thousands of tiny processors for multitasking.

VRAM (Video RAM): Stores graphics and textures.

Shaders: Create visual effects.

Cooling system: Keeps it from overheating.

• **Popular GPU brands:(** NVIDIA,AMD ,INTEL)