**Jetson**

**Problem:** Failed to flash a Jetson Nano 4GB Developer Kit using NVIDIA SDK Manager. The host PC could not detect the Jetson when connected in Force Recovery Mode.

**Steps Taken:**

1. Downloaded and prepared an official SD card image.
2. Set up SDK Manager on the host PC.
3. Attempted connection in Force Recovery Mode (FC REC to GND jumper correctly placed).
4. Tried multiple different SD card images.

**Observations:**

* Detection via SDK Manager consistently failed.
* Found limited specific troubleshooting information online for this 4GB Dev Kit model.
* Noted reports of potential OS/setup difficulties with this hardware version.

**Resolution/Next Step:** Based on Muzammil's recommendation due to setup challenges, we will proceed with a Jetson Nano 2GB model starting Wednesday.

**KL-AwQ - KL Divergence Aware Quantization**

* Integrate Second Order Approximation of KL to get Hessian and Integrate with hessian of Inputs
* Approximate Quantize Model Distribution to Unquantized One (option 1).
* Integrate KL Divergence Based Approximation Per-Column Based.
* Submitted a File that Has Code Logic For both of these Merged with GPTQ

**TaskAware-LayerWise Distillation**

<https://arxiv.org/abs/2210.01351>

**GPTQ Quantization With Fixed Kernels**

* Fixed Kernel Issue we were facing On trying to run quantized Models.
* Streamlined a General logic to quantize Model to 2,3,4,8 bits without modifying Code or Kernels.