## **Workflow To fine tuning LLM**

**Step1-** install python(<u>Download Python | Python.org</u>)

**Step 2-** make the virtual environment in cmd(python -m venv venv)

Step 3- activate the virtual environment-(venv\scripts\activate)

Step 4-install

Ilm(https://www.google.com/url?sa=E&q=https%3A%2F%2Fhuggingface.co%2FTinyLlama%2FTinyLlama-1.1B-Chat-v1.0)

**Step 5-** install all the file in the requirements.txt (just go to cmd and type python -m pip install -r requirements.txt)

**Step 6-**Run the train .py file in cmd(python train.py)

**Step 7-** You will see the LLM getting trained and it show you the epoch, training time, loss token and all



1, 29k/1, 29k [00:0047, 7k/s]
599k/900k [00:0040:90: 18, 29k/s]
1, 599k/1, 500k [00:0040:90: 26, 69k/s]
1, 599k/1, 500 [00:0047, 7k/s]
585k/851 [00:0047, 7k/s]
686k/600 [00:0047, 7k/s] 13/1/30 (80 80400 M), 308 (1 example/s)

1504. [187] [Separation of Separation of Control of Contro norm': 47.7723023559783, 'learning.rate': 0.60016, 'recen': 0.677 |
norm': 2.18771269122677, 'learning.rate': 0.600135355555555555, 'lepoch': 1.33]
norm': 0.6607491000267491, 'learning.rate': 7.1811111111111112-08, 'epoch': 2.0
norm': 0.6797414473333869, 'learning.rate': 2.60066666666007-05, 'epoch': 2.07]
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Ong: 0.797414473333869, 'learning.rate': 2.6006666666007-05, 'epoch': 2.07]