#### LLM (MiniCPM-V-2\_6) for Image and Video Understanding: How to Install and Run MiniCPM-V

MiniCPM is series of end-side multimodel LLM designed for visual language understanding. It will answer questions related images and videos you uploaded.

sudo apt update sudo apt upgrade

sudo apt install git-all

Then, make sure that Git support for large-scale files is installed by running curl -s https://packagecloud.io/install/repositories/github/git-lfs/script.deb.sh | sudo bash

sudo apt-get install git-lfs git lfs install

git clone https://github.com/OpenBMB/MiniCPM-V.git

cd MiniCPM-V ls -la

### create virtual environment;

python3 -m venv minicpm source minicpm/bin/activate

## Lets install the required libraries:

pip install setuptools

to see the list >> pip list

pip install -r requirements.txt

Then, we need to install three additional packages to be able to run the model pip install huggingface\_hub pip install wheel pip install flash\_attn

Lets download the model:

mkdir model\_files

## Download model using hugging face hub. Run this script:

from huggingface\_hub import snapshot\_download snapshot\_download(repo\_id="openbmb/MiniCPM-V-2\_6", local\_dir = "/home/modelscope/shan/MiniCPM-V-2\_6")

Run the main script: python Chat-with-multiple-images.py

Create conda environment conda create -n MiniCPM-V-2\_6 python=3.10 -y && conda activate MiniCPM-V-2\_6

Install required packages pip install -r requirements.txt -i https://pypi.tuna.tsinghua.edu.cn/simple --default-timeout=1000

Install jupyter to run code on jupyter (Optional) conda install jupyter -y uninstall charset\_normalizer -y pip install charset\_normalizer -y jupyter notebook

# Download model:

 $model scope \ download \ --model \ AI-Model Scope/Mini CPM-V-2\_6 \ --local\_dir/home/model scope/shan/Mini CPM-V-2\_6/model$