Notes for Running MLflow

I had a real problem with the inference. Here is what works.

Batch Prediction

mlflow models predict -t json -i model/input\_example.json -m model --env-manager=local

This somewhat obviates the need for mlfow. I had to continually tweak the local environment until it worked according to the instructions from the error messages and using ChatGPT. I could not get it done any other way.

Online Prediction

mlflow models serve -m model --env-manager=local &

You run the above in Ubuntu terminal. It will complain. However, it will set up firefox. It will probably fail the first time. I can not remember whether the small python program called online\_predict.ipynb runs first or not. Anyways, there is some back and forth between these environments until it works. The trick is to get firefox actually started within Ubuntu. Then when a WSL .ipynb file runs, it will go look for the Ubuntu version of firefox. Everything must obviously be running within linux. Online\_redict.ipynb must ALSO be running with wsl. Otherwise, it can not see the kernel that has been set up. You should install the kernel running Ubuntu terminal. It does not seem to see any of the regular Windows kernels.