F.CS308 Лаборатори № 1

Лабораторийн орчин бэлтгэх:

Windows

1. Check   Settings -> About -> Windows specifications: Version 1902 minimum requirement
2. Start -> Windows PowerShell run as administrator click
3. Type wsl –install
4. After Installation Restart PC
5. Press Windows button or click Start icon, type "Microsoft Store", in search field type Ubuntu and install
6. After installation click Ubuntu icon
7. Set Username and Password
8. sudo apt-get update && apt-get upgrade
   a. if error occurs
      i. sudo apt install ntp
      ii. sudo service ntp restart
9. type "code ." on ubuntu terminal and install remote wsl extension on vscode
   https://code.visualstudio.com/docs/remote/wsl-tutorial

windows + cuda

1. install graphic driver
2. follow instruction https://docs.nvidia.com/cuda/cuda-installation-guide-microsoft-windows/index.html
3. install anaconda https://www.anaconda.com/
4. create new environment

windows + docker

1. follow instructions https://docs.docker.com/desktop/install/windows-install/
2. install Vscode

Ubuntu + docker + GPU

1. install graphic driver and restart
2. install docker on ubuntu https://docs.docker.com/engine/install/ubuntu/
3. install nvidia-docker https://docs.nvidia.com/datacenter/cloud-native/container-toolkit/install-guide.html#docker
4. `docker run --gpus all -it nvcr.io/nvidia/pytorch:22.08-py3`
5. install vscode

Шаардлагатай сангууд суулгах:

sudo apt-get update && apt-get upgrade

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sudo apt-get install ffmpeg
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Opencv   pip3 install opencv-python

Numpy   pip3 install numpy matplotlib scipy pandas scikit-learn

PyTorch   pip3 install torch torchvision torchaudio --extra-index-url
https://download.pytorch.org/whl/cpu