Bioinformatics Project – Daily plan

Wednesday, 29/03/23

* Write up project plan and proposal
* Using the literature and Suze’s project plan for me

Thursday, 30/03/23

* Got confirmation on project plan and proposal from Suze and Johan, signature from suze
* Got the laptop, set it up
* Created ssh key on laptop for github repository
* Set up access to server
* Got data files (images) from Suze
* Put data files on laptop and server, as well as cloned repo of the DL model
* Read paper more to better understand DL model

Friday, 31/03/23

* Read paper more to better understand DL model
* Started installing things
  + Conda
  + All of the things required for the model
  + Struggled with pytorch (cuda?)

Monday, 03/04/23

* Managed to install pytorch things without cuda
  + Turns out that this machine doesn’t have a gpu, so tried to install cpu version of it instead
* Everything installed but ML model doesn’t work: error “Segmentation fault (core dumped)”
* Tried installing everything on local machine instead, this time using only conda, worked
* ML model doesn’t give segmentation error now – gives error because of lack of jpg images
* Downloaded ImageMagick for conversion
* Converted all images using magick, add to new folder
* Ran ML model again, doesn’t work again

Tuesday, 04/04/23

* Researched error I got from trying to run ML model: happened because pytorch version not compatible with python=3.9 (needs 3.10)
* Tried to downgrade python – too many library version conflicts
* Found a special nightly release of pytorch that works with python 3.10, installed successfully
* Tried to run the ML model again, error because this pytorch needs GPU support, don’t have it

Wednesday, 05/04/23

* Currently trying:

1. Getting pytorch nightly release with CPU support (both channels, but likely won’t work) in env torchenv
2. Making new env with python=3.9, then installing other packages with versions that support python=3.9 in env python3.9
3. Making a yaml file with all of the different channels and dependencies and creating another environment using that