**CS 3021 / CS4321 Lab**

1. Install Anaconda
   1. <https://www.anaconda.com/>
   2. Conda Cheat Sheet
      1. https://docs.conda.io/projects/conda/en/4.6.0/\_downloads/52a95608c49671267e40c689e0bc00ca/conda-cheatsheet.pdf
   3. Create new environment for Python 3.9
      1. conda create –name py\_39 python=3.9
   4. Activate environment
      1. conda activate py\_39
   5. Add new packages
      1. conda install numpy
      2. conda install jupyter
      3. pip install tensorflow
      4. conda install matplotlib
2. Install Git
   1. <https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>
3. Make a GitLab Account
   1. <https://gitlab.nps.edu>
   2. <https://docs.gitlab.com/ee/university/#1-gitlab-beginner>
4. Create a new Project
5. Create / Add SSH Key to Gitlab
   1. https://gitlab.nps.edu/help/user/ssh.md
6. Access Token
   1. Settings -> Access Tokens
   2. Copy token, store for later use
7. Install VS Code
   1. <https://code.visualstudio.com/>
8. Download / Install Extensions
   1. GitLens
   2. Jupyter
      1. Jupyter Keymap
      2. Jupyter Notebook Renderers
   3. Python
      1. Pylance
   4. Remote – SSH
      1. Remote – SSH Editing Configuration Files
   5. Latex Workshop
9. VS Code + Git Repository
   1. Open VS Code
      1. ‘Clone Git Repository’
         1. On Gitlab project page, click ‘Clone’
            1. ‘Clone with HTTPS’
      2. Paste URL in VS Code
      3. Type username
      4. Copy / Paste Access Token
   2. Add new file to project
10. Git Commands