


Assignment Submission

L03 Lab ITAI 1378

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- **Prepared for:** Prof. Patricia McManus
- **Class:** ITAI 1378 – Summer 2024
- **GitHub Repo:** <https://github.com/henrykobutra/jupyter-exploration>

What I Did

Steps to deliver my assignment

1. Open Visual Studio Code
2. Created and opened a folder specific to this assignment
3. Created 3 files
 - a. `.gitignore` to make sure unintended files like `.env` files are not pushed to GitHub (or any other version control platform like GitLab)
 - b. `My_First_Notebook.ipynb`
 - c. `README.md`
4. Added markdown and python code according to the assignment to my jupyter notebook
5. Executed the code cell to make sure everything is working correctly
6. Added relevant details to `README.md`
7. Log into my GitHub account
8. Create a new public repository called `jupyter-exploration` without README and license
9. Opened a terminal in Visual Studio Code using +J
10. Typed in `git init` to initialize a git repository
11. Opened Source Control Tab in Visual Studio Code and added “Initial Commit” as comment and hit commit
12. Then I executed the following commands to my Visual Studio Code terminal
 - a. `git remote add origin https://github.com/henrykobutra/jupyter-exploration.git`
 - b. `git branch -M main`
 - c. `git push -u origin main`
13. Checked my GitHub repository on github.com to make sure everything is pushed correctly.

These steps work for me because I already had the following:

- I already have a GitHub account <https://github.com/henrykobutra>
- I already have python installed and managed locally via Homebrew
- I can create, work on, and execute jupyter notebooks directly in VS Code using the following plugins
 - Jupyter, Jupyter Cell Tags, Jupyter Keymap, Jupyter Notebook Renderers
 - Python, Pylance
 - Among other useful quality-of-life plugins

What I learned

Reflections

I am relatively new to jupyter notebooks, but I enjoyed learning about different ways to work with .ipynb files including Google Colab, running jupyter locally using ``jupyter notebook`` and finally landing on using Jupyter notebooks within VS Code.

I have already worked with GitHub and GitLab for version control, and SVN (Apache Subversion) over 10 years ago, but I still do not consider myself an expert on version control.

That being said, I'm excited to learn more on how to use Jupyter and Python for Computer Vision applications.

Challenges

The only challenge I can think of is that I initially forgot to initialize git on my local machine before adding my new remote repository to the project. After ``git init`` and committing my initial files, everything went smoothly.