

L0 ITAI 1378 Colab and Other Tools Practice Run

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In this lab, I created a GitHub account, navigated to the GitHub website, and signed up for a free account. After creating my account, I explored the GitHub interface, familiarized myself with the dashboard, and learned about repositories, issues, and pull requests. I created a new repository by clicking on the “+” icon in the top right corner and selecting “New repository.” I named the repository “jupyter-exploration” as instructed, and I initiated the repository with a README file, committing the changes directly to the main branch. I would like to add that the videos GitHub has on YouTube are very useful. The videos include a brief introduction, beginner Git commands, how to create a repository, how to upload files and folders, how to add code, how to create and merge a pull request, and some GitHub profile tips.

After creating my GitHub account, I completed part two of this lab. For part two, I decided to use an online environment (Google Colab). I navigated to the Google Colab website and signed in with my Google account. After that, I created a new notebook by clicking on “File” and then “New Notebook”. In the newly created notebook, I inserted two cells, one with text and one with code. The text was “*My first markdown cell in Jupyter*” and the code was `print("Hello, World!")`, I executed each cell and observed the output. I saved the notebook and downloaded it to my computer. I installed GitHub Desktop on my computer and uploaded my notebook to GitHub. To upload my notebook, I cloned my repository, I went to my GitHub desktop, clicked on “File” > “Clone Repository”, selected “URL” and used the URL of my repository, and finally clicked “Clone”. I continued uploading the notebook by navigating to the local repository folder on my computer, and I pasted the file that I downloaded previously. The last step to complete the

lab was to commit and push the changes. I returned to the GitHub Desktop and saw my notebook file listed under “Changes”. I entered a commit message that said “Add my first Jupyter Notebook”, and I clicked “commit to main”, and after I clicked “Push origin”.

In this lab, I learned about Git and GitHub. Git is a version control system that intelligently tracks changes in files. GitHub is a web-based hosting service for Git repositories. I also learned that Git allows people to track changes in their work while enabling others to work on the same project simultaneously without overwriting each other. I learned how to create a repository and notebook. I decided to use an online environment for my lab, and I chose Google Colab. I wasn’t very familiar with Google Colab, but the instructions helped me whenever I was confused. I enjoyed learning about Git. I was more familiar with GitHub as a resource for some of my classes, but this was the first time I created a repository. The challenges that I encountered were due to my unfamiliarity with GitHub, Git, and Google Colab, but as I mentioned before, the instructions were very helpful, and the videos for beginners in the GitHub YouTube channel helped me understand better the concepts. I’m excited to learn more about these new tools and see what I can create with them.

GitHub Repository Link: <https://github.com/julyjj2742-create/jupyter-exploration>