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ITAI 1378- Intro to Computer Vision

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Lab 03- Exploring Jupyter Notebook and GitHub repository

In setting up this lab, I was able to skip over the beginning steps, as I’ve already used/ registered for both GitHub and Jupyter Notebook (via Anaconda and Anaconda Cloud) in previous classes. I first created the “jupyter-exploration” repository in GitbHub by clicking the plus sign in the upper right-hand corner and selecting “New repository” in the dropdown menu. Next, I followed the lab’s instructions and amended the README file with a quick summary and then committed the changes to the main branch. After launching Jupyter Notebook and creating a new notebook, I changed the first cell to a Markdown cell by clicking the square braces to the left of the cell and typing “m” on my keyboard. To give the Markdown cell the largest font, I used a single “#” before inputting the title of the notebook. Next, I created a new cell beneath the first, which was in Code type by default. Following lab instructions, I entered in the code to output “Hello, World” and downloaded the notebook locally as “My\_First\_Notebook”. To upload the file to the GitHub repository, I clicked the plus sign within the depository and selected “Upload files” from the dropdown menu.

Most of the tools and concepts for this lab were already familiar to me, but the main purpose of GitHub as a version control system was not. In the past, I had only used the repository feature to submit assignments and realize now how much more there is to the service. This makes sense, that in a professional setting (or academic) that when working collaboratively with a team, it would be much simpler to use an open-source site like GitHub to share files, keep track of file changes and to view file history and I now grasp how widespread it’s use is among professional developers. I have more experience with Jupyter Notebook after taking an *Intro to Machine Learning* class over the summer and feel like I have a better understanding of its interactive computing features. It allows you to write code, documentation for the code, and to create visualizations and graphs from code all in one place.

As far as challenges, I did not run up against any hurdles except a minor one; I forgot how to find my URL for the repository, to share it, and it took a little searching until I realized it was under the “< > Code” button.

Repository link: <https://github.com/ktgraze/jupyter-exploration.git>