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## **My Lab Experience**

During the lab session, I undertook several key tasks to familiarize myself with GitHub and Jupyter Notebook:

**Setting Up GitHub**:

* + I Created a GitHub account by signing up on their website.
  + I followed the setup instructions to personalize my profile and adjust the basic settings.

**Creating a Repository**:

* + I created a new repository named jupyter-exploration.
  + I set the repository to the public to make it easily accessible.

**Installing Jupyter Notebook**:

* + Since Jupyter Notebook doesn’t install directly through GitHub, I used Google Colab to work with notebooks without having to install anything locally.
  + I launched Google Colab and created a new notebook there.

**Performing Basic Operations in the Notebook**:

* I added Markdown cells to the document and explained the contents of my notebook.
* I inserted code cells to write and execute Python code.
* I ran the code cells to check if everything was working as expected.

**Uploading the Notebook to GitHub**:

* I downloaded the notebook file from Google Colab.
* I uploaded the file to the jupyter-exploration repository on GitHub.
* I verified that the repository was public, and that the notebook was accessible.

### **What I Learned**

In this lab session, I gained valuable insights into version control and interactive computing:

**Version Control with GitHub**:

* I learned how to create and manage repositories on GitHub.
* I learned how version control helps track changes and collaborate on projects.
* I discovered how to upload files to a repository and ensure that the settings are properly configured.

**How I interact with Jupyter Notebooks**:

* I became familiar with the layout of Jupyter Notebooks, including how to use Markdown and code cells.
* I explored how documenting code and results in an interactive format can be both easy and effective.
* I appreciated the iterative nature of Jupyter Notebooks, which is great for coding and data analysis.

### **My challenges and Solutions**

**Challenge**: **Understanding GitHub's**

* + **Solution**: I took time to explore GitHub’s documentation and used tutorials to get comfortable with managing repositories and uploading files.

**Challenge**: **Installing Jupyter Notebook**

* **Solution**: I later learn you could access Jupiter Notebook through Goggle Colab
* **Challenge**: **Navigating Google Colab**
  + **Solution**: Followed online tutorials and documentation to become familiar with the features of Google Colab, including how to download notebooks and manage files.

Overall, this lab experience significantly enhanced my understanding of GitHub, Python, and Google Colab. It broadened my perspective on version control and interactive computing tools, providing a solid foundation for my future projects and collaborations.

GitHub:

<https://github.com/stauriea21/jupyter-exploration>