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# GOOGLE COLAB LAB SHEET

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Version 1.0

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## Overview

### Section 1: Google Collab Walkthrough

#### Objective:

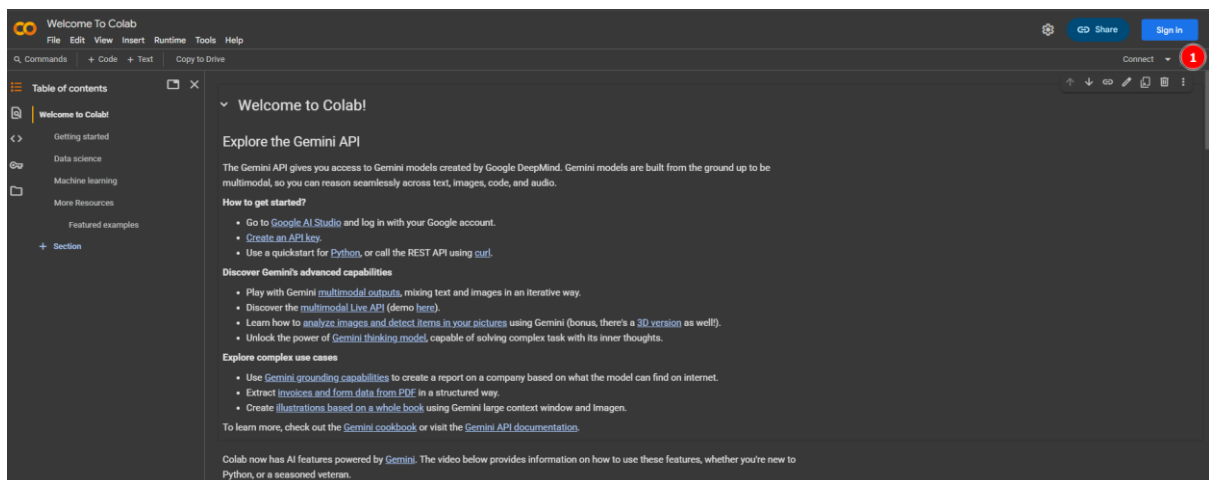
#### Lab Needed:

- Internet Browser
- Google Account

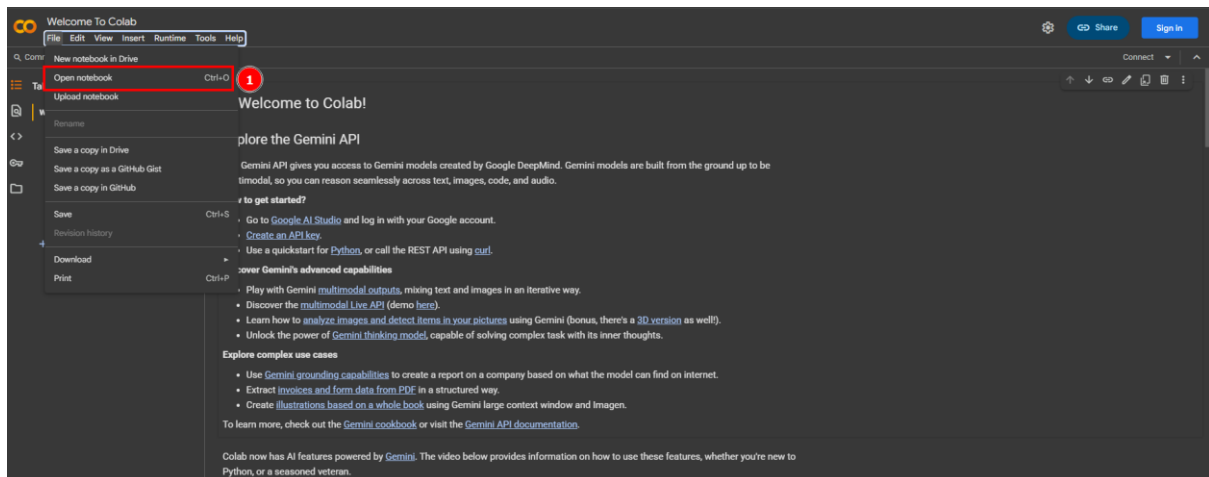
### Lab 1 : Open Google Collab's Notebook

#### Instructions:

1. Go to: <https://colab.research.google.com/>
2. Here is the Google Colab. You need to sign in with your Google's Account.

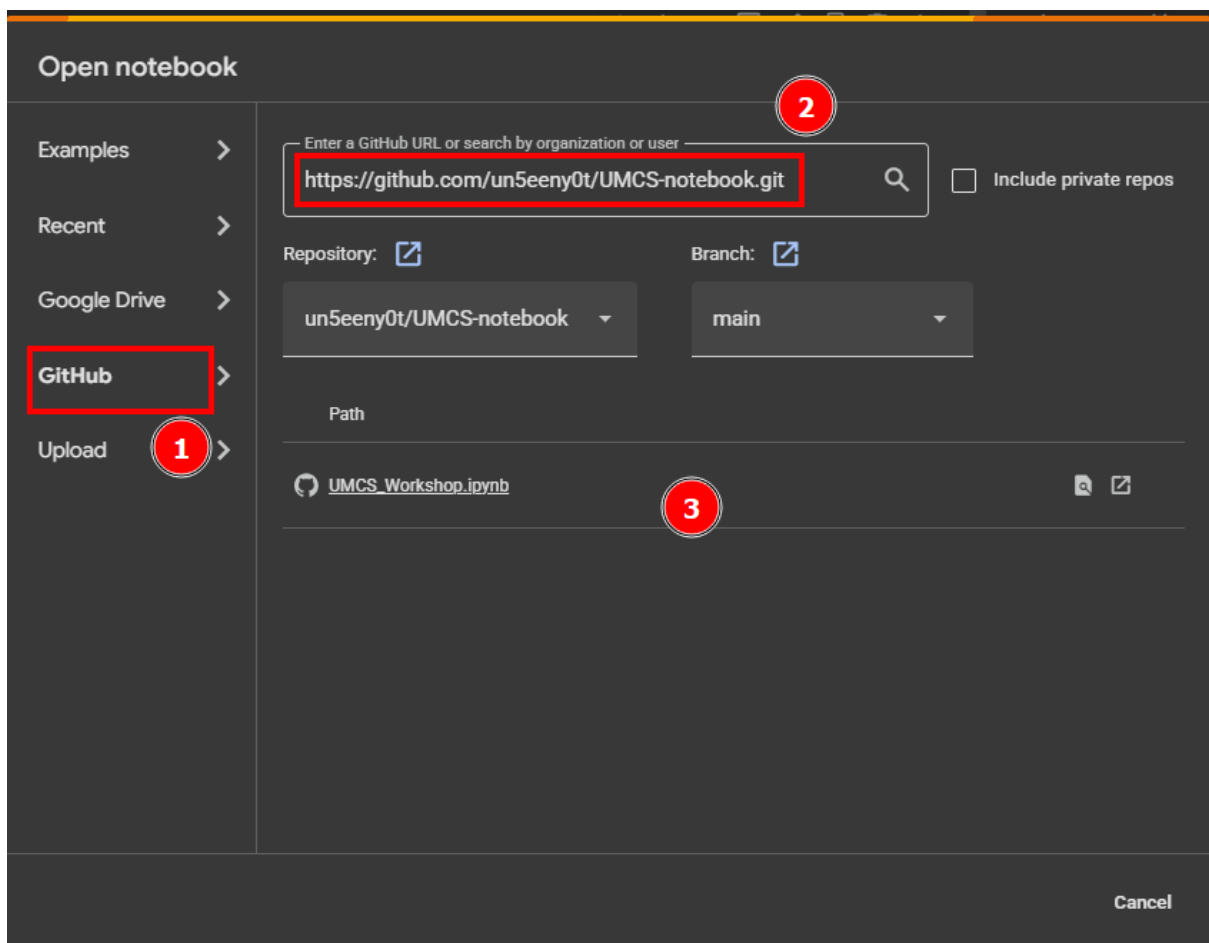


3. Click on File and choose Open Notebook.



4. Click on the Github. Then paste the link and select the path.

<https://github.com/un5eeny0t/UMCS-notebook.git>



5. When open the .ipynb, it will be redirected to the notebook.

6. Then save this notebook into your Google Drive.

7. Copy and run the first cell with this command to download the resources.

```
!wget -O /home/conn.log.gz https://raw.githubusercontent.com/un5eeny0t/UMCS-  
notebook/main/conn.log.gz
```



```
Copy of UMCS_Workshop.ipynb
File Edit View Insert Runtime Tools Help
Q Commands + Code + Text

Files
Analyze your files with code written by Gemini Upload
content
datalab
dev
etc
home
conn.log.gz
kaggle

Prequisite
[1] !wget -O /home/conn.log.gz https://raw.githubusercontent.com/un5eeny0t/UMCS-notebook/main/conn.log.gz

--2025-05-15 07:25:30-- https://raw.githubusercontent.com/un5eeny0t/UMCS-notebook/main/conn.log.gz
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.108.133, 185.199.109.133, 185.199.110.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 36269 (35K) [application/octet-stream]
Saving to: '/home/conn.log.gz'

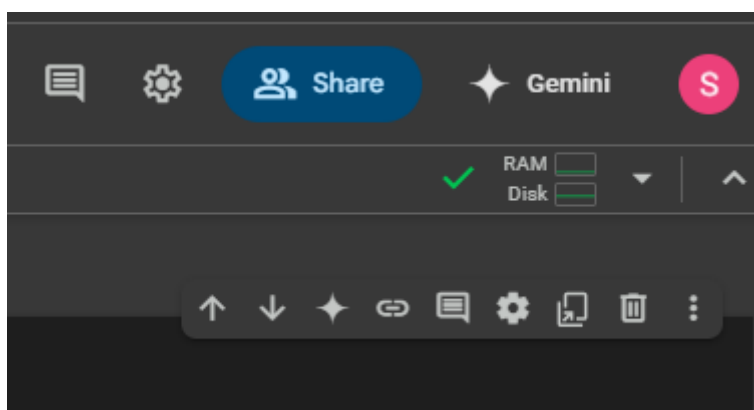
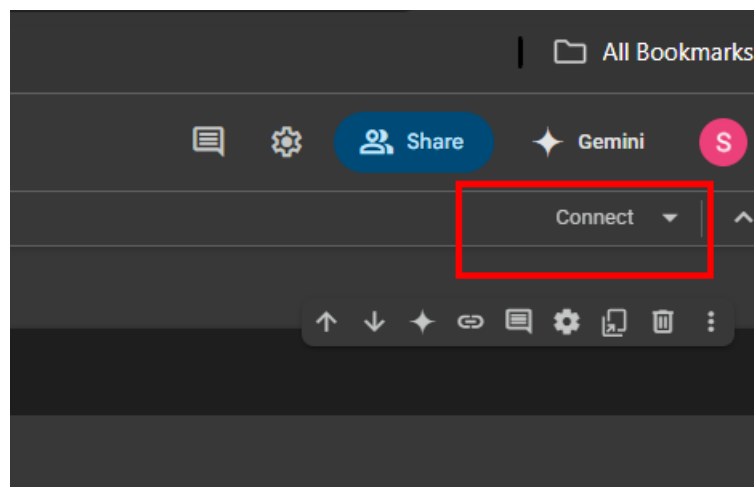
/home/conn.log.gz 100%[=====] 35.42K --.-KB/s in 0.01s

2025-05-15 07:25:30 (3.37 MB/s) - '/home/conn.log.gz' saved [36269/36269]
```

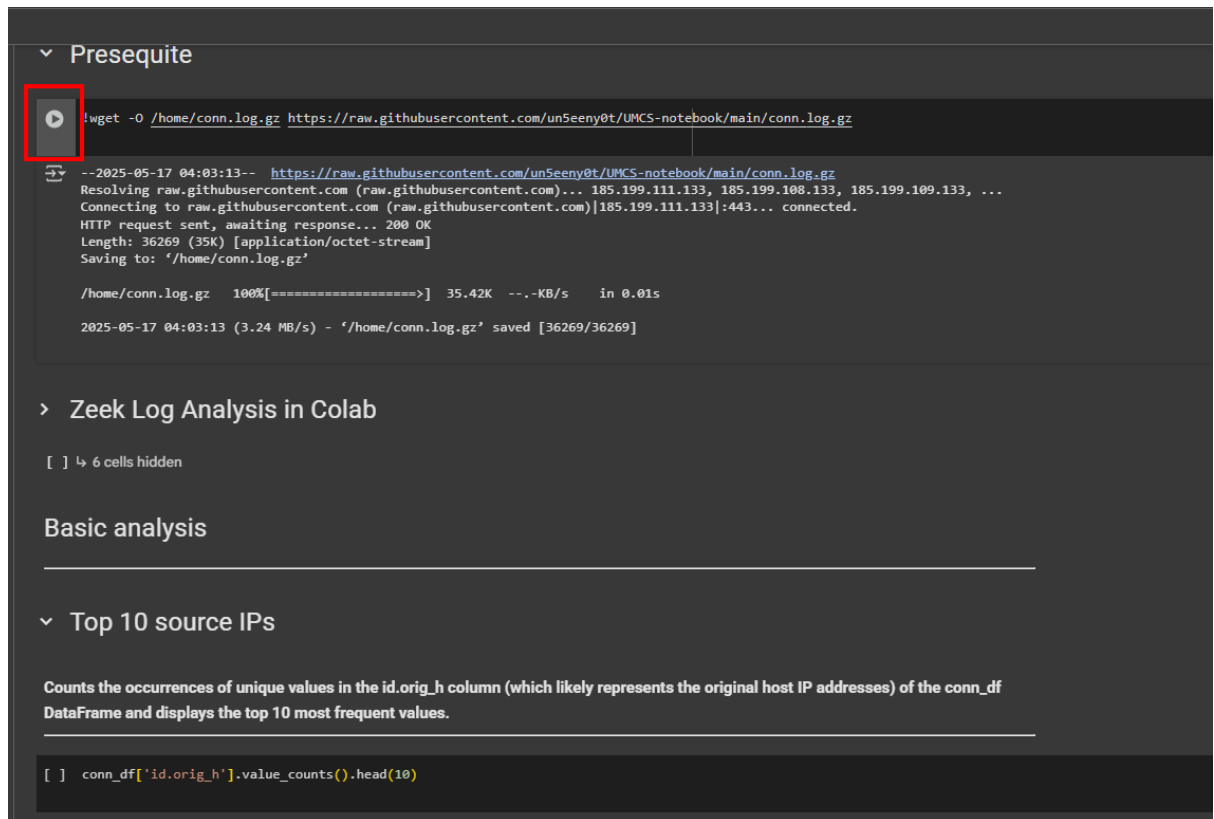
## Lab 2 : Google Colab Usage

### Instructions:

1. Before running cell, make sure to click on the connect to runtime



2. To run the cell, click on the run cell button



```
▼ Prequisite

!wget -O /home/conn.log.gz https://raw.githubusercontent.com/un5eeny0t/UMCS-notebook/main/conn.log.gz

--2025-05-17 04:03:13-- https://raw.githubusercontent.com/un5eeny0t/UMCS-notebook/main/conn.log.gz
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133, 185.199.108.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.111.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 36269 (35K) [application/octet-stream]
Saving to: '/home/conn.log.gz'

/home/conn.log.gz 100%[=====] 35.42K --.-KB/s in 0.01s

2025-05-17 04:03:13 (3.24 MB/s) - '/home/conn.log.gz' saved [36269/36269]

> Zeek Log Analysis in Colab

[ ] ↳ 6 cells hidden

Basic analysis

▼ Top 10 source IPs

Counts the occurrences of unique values in the id.orig_h column (which likely represents the original host IP addresses) of the conn_df DataFrame and displays the top 10 most frequent values.

[ ] conn_df['id.orig_h'].value_counts().head(10)
```