



GOOGLE COLAB LAB SHEET



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Version 1.0

Prepared by

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Overview

Section 1: Google Collab Walkthrough

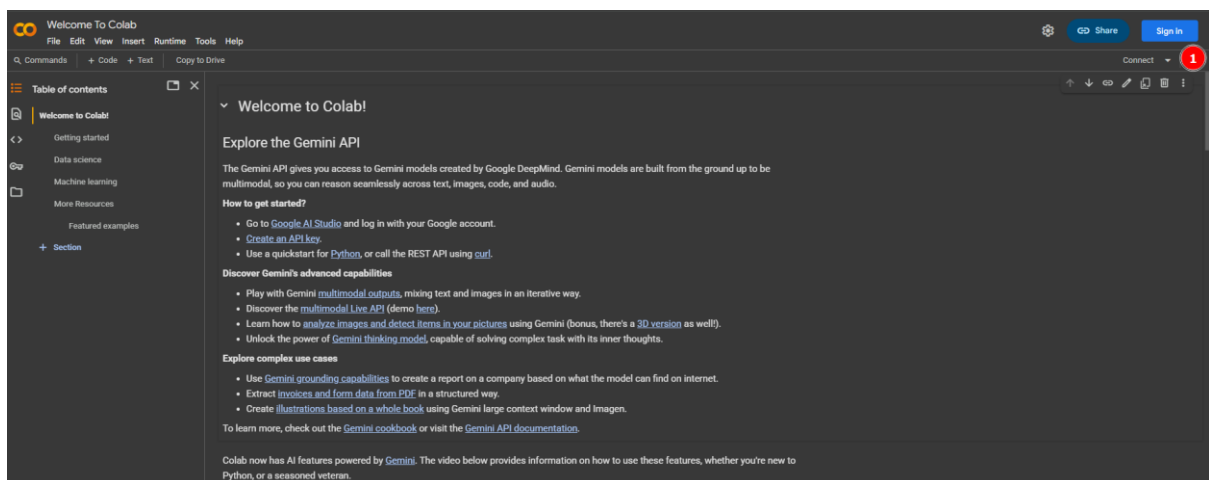
Lab Needed:

- Internet Browser
- Google Account

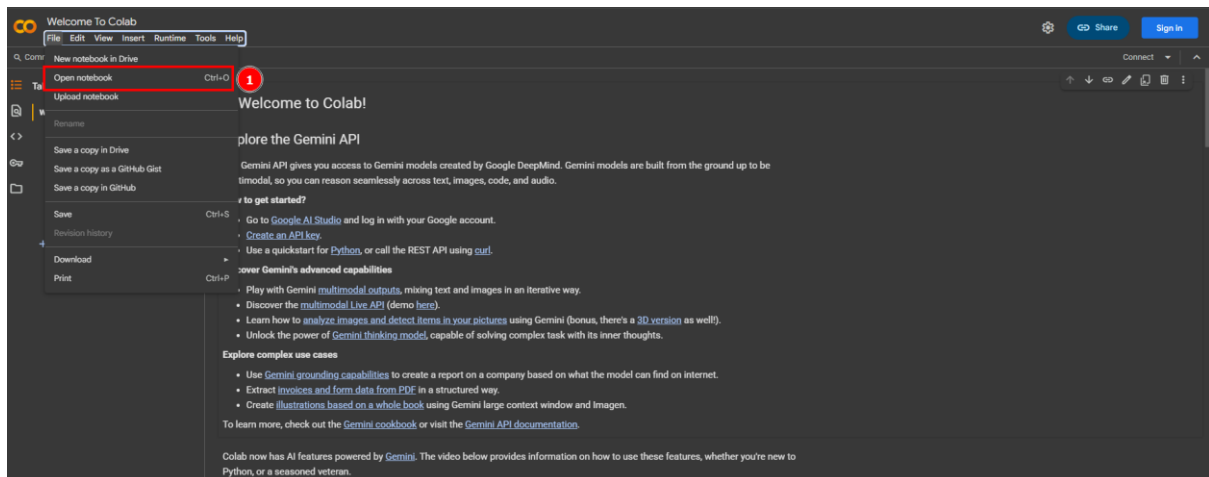
Lab 1 : Open Google Collab's Notebook

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.

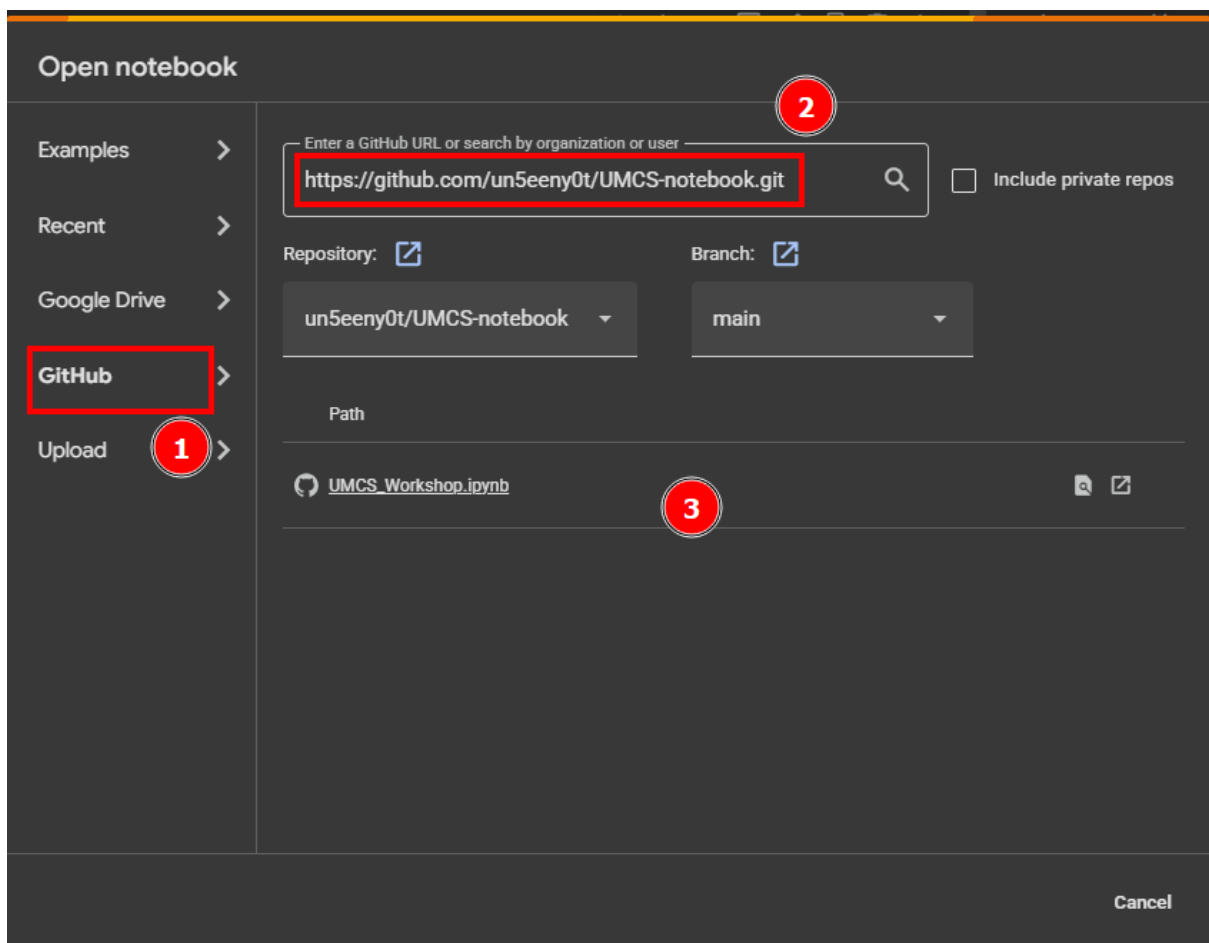


3. Click on File and choose Open Notebook.



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
```

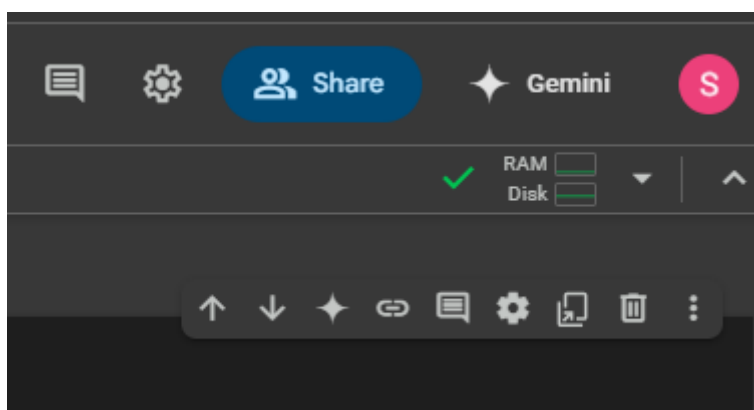
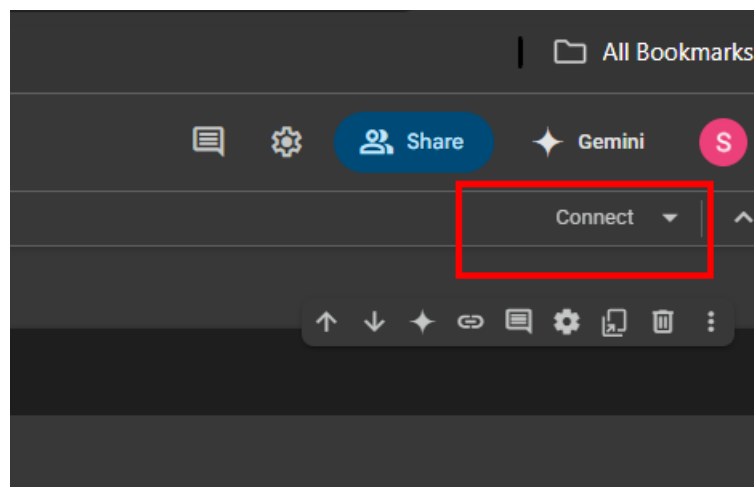


```
Copy of UMCS_Workshop.ipynb  
File Edit View Insert Runtime Tools Help  
Q Commands + Code + Text  
Files  
Analyze your files with code written by Gemini Upload  
content  
datalab  
dev  
etc  
home  
conn.log.gz  
kaggle  
Prequisite  
[1] !wget -O /home/conn.log.gz https://raw.githubusercontent.com/un5eeny0t/UMCS-notebook/main/conn.log.gz  
--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]
```

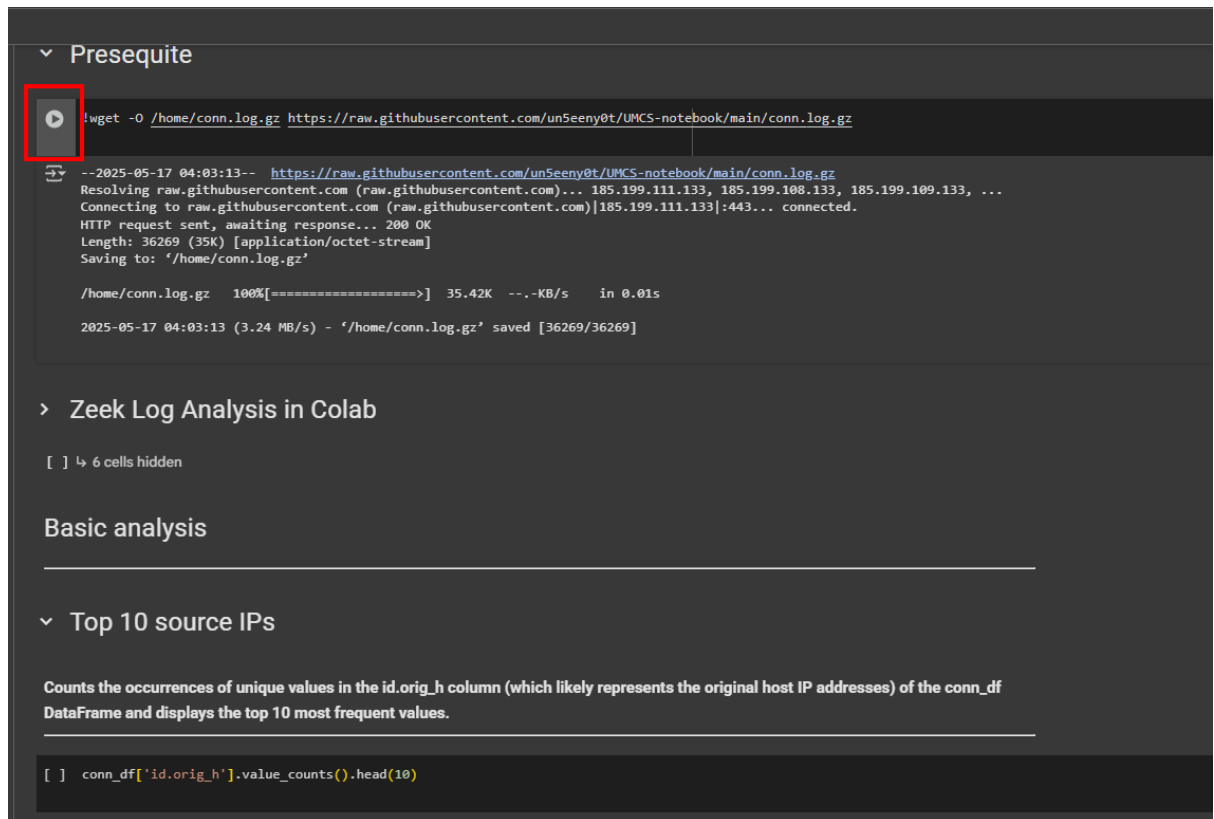
Lab 2 : Google Colab Usage

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



```
!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)
```