
INTRODUCTION GOOGLE COLAB

Google Colaboratory

- Zero configuration required
- Free access to GPUs
- Easy sharing

Tools

Data Preparation

python

Apache Spark

Data Visualization

matplotlib

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Machine Learning

Spark MLlib

scikit-learn

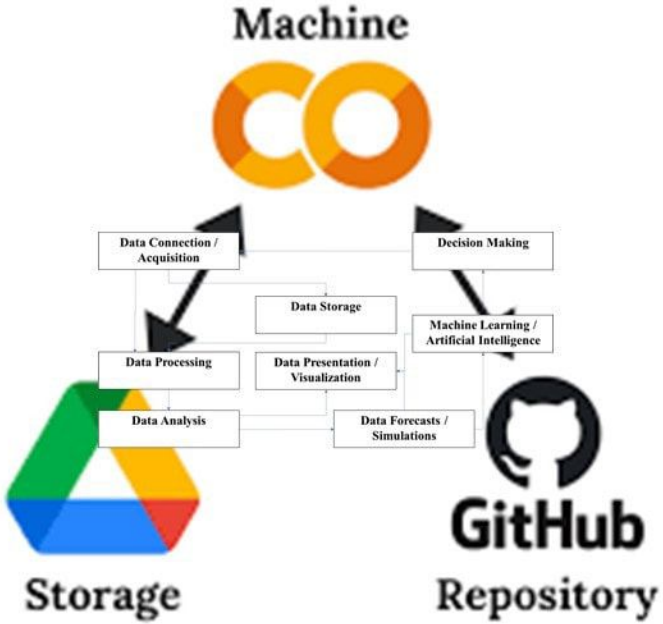
Deep Learning

Keras

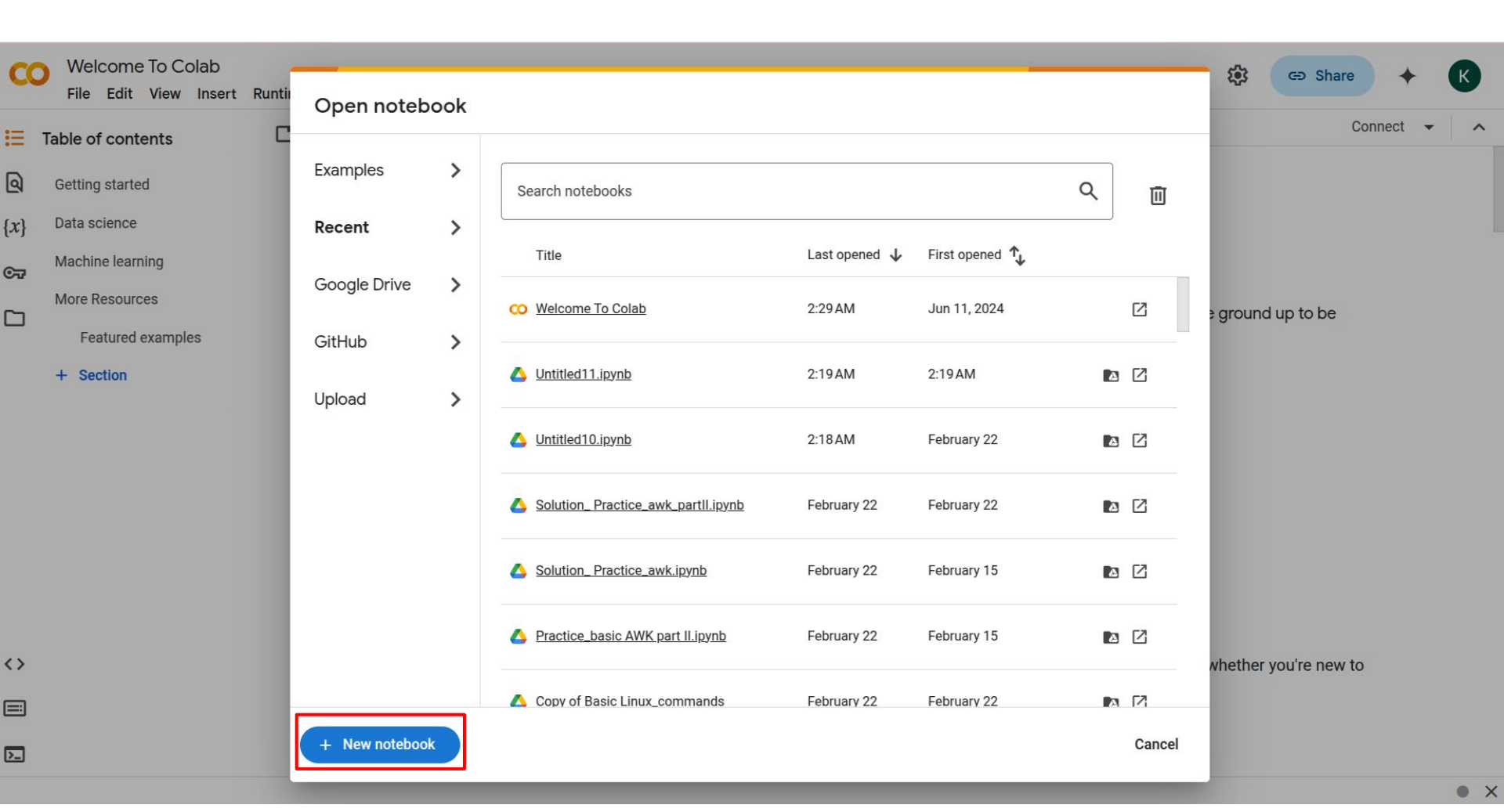
TensorFlow

GIS mapping

GeoPandas



https://grealab.weebly.com/data-analytics---coding-in-colab.html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Untitled11.ipynb 2:19 AM 2:19 AM
Untitled10.ipynb 2:18 AM February 22
Solution_ Practice_awk_partII.ipynb February 22 February 22
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Practice_basic AWK part II.ipynb February 22 February 15
Copy of Basic Linux_commands February 22 February 22
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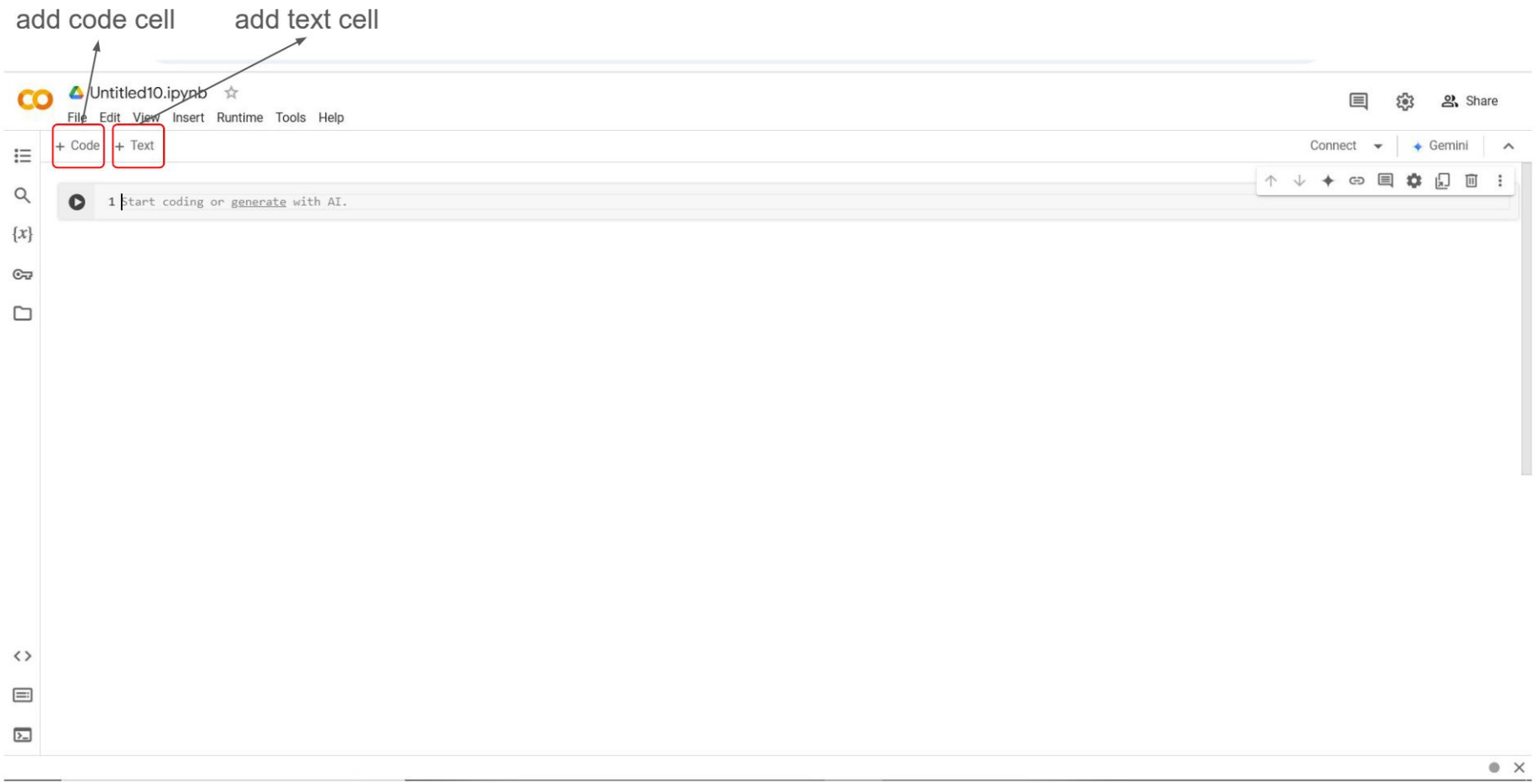
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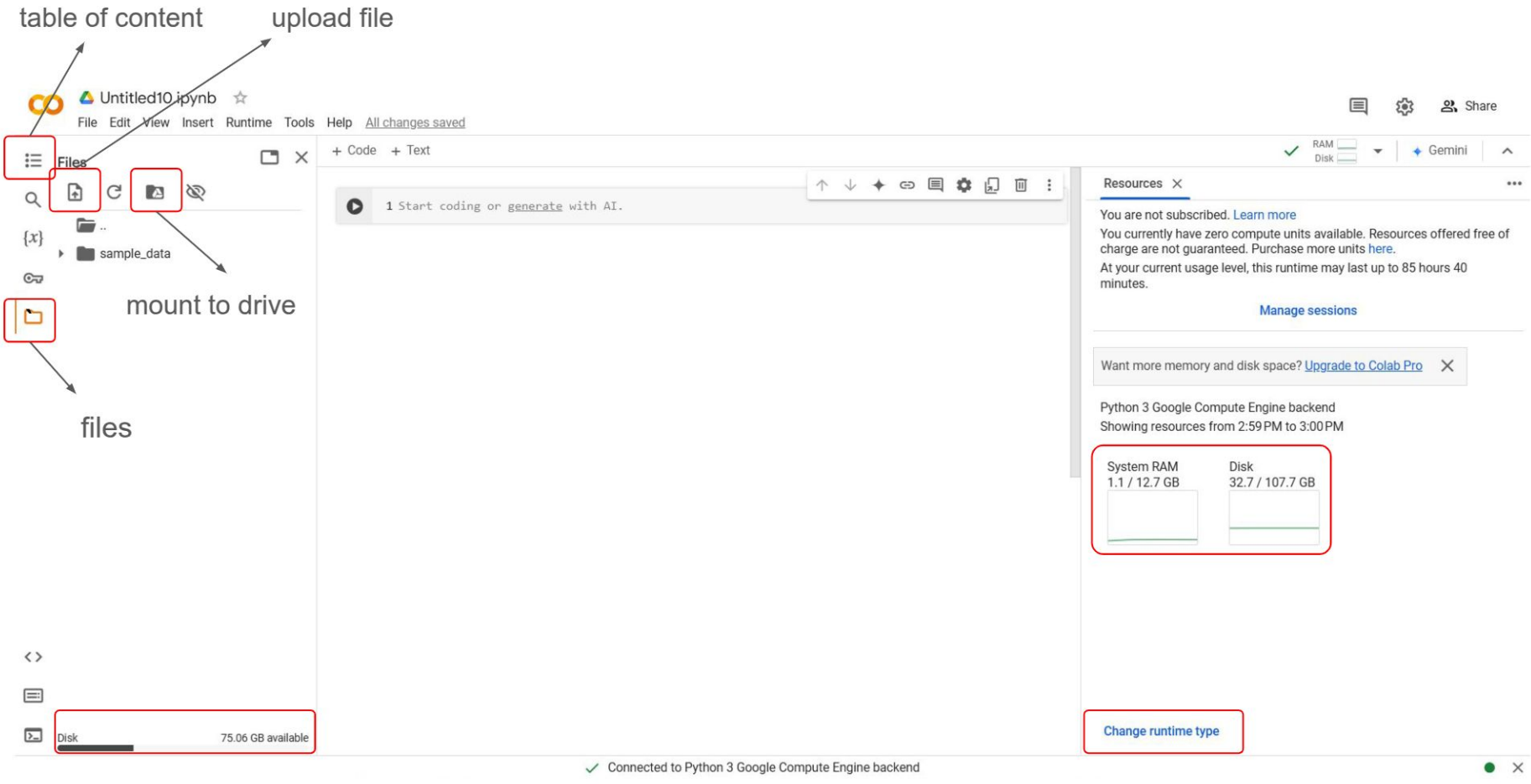
1 Start coding or generate with AI.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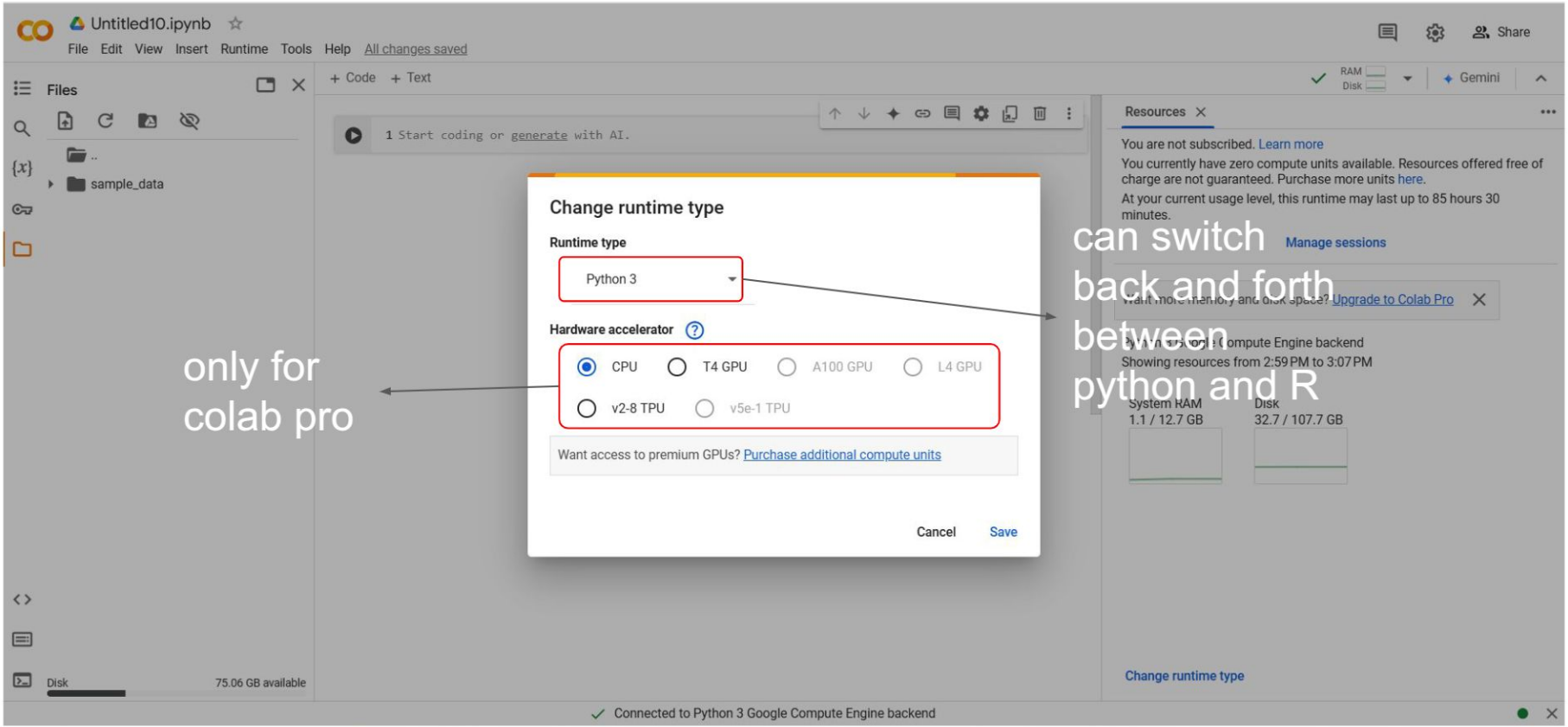
1 Start coding or generate with AI.
Resources
You are not subscribed. Learn more
You currently have zero compute units available. Resources offered free of charge are not guaranteed. Purchase more units here.
At your current usage level, this runtime may last up to 85 hours 40 minutes.
Manage sessions
Want more memory and disk space? Upgrade to Colab Pro
Python 3 Google Compute Engine backend
Showing resources from 2:59 PM to 3:00 PM
System RAM
1.1 / 12.7 GB
Disk
32.7 / 107.7 GB
..
sample_data
mount to drive
files
Disk
75.06 GB available
Change runtime type
Connected to Python 3 Google Compute Engine backend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Runtime type
Python 3
Hardware accelerator
CPU
T4 GPU
A100 GPU
L4 GPU
v2-8 TPU
v5e-1 TPU
Want access to premium GPUs? Purchase additional compute units
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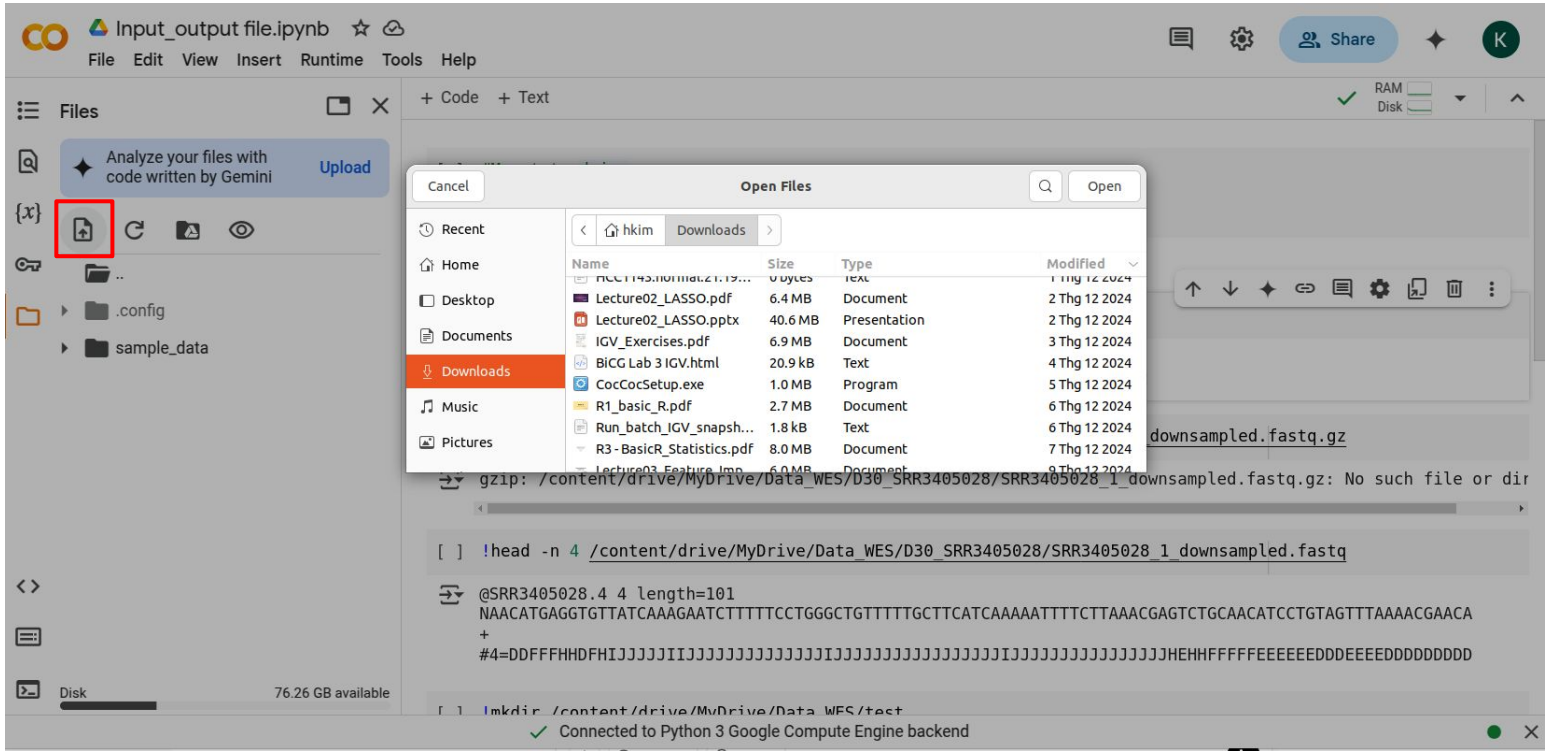
Save
only for colab pro
can switch back and forth between python and R

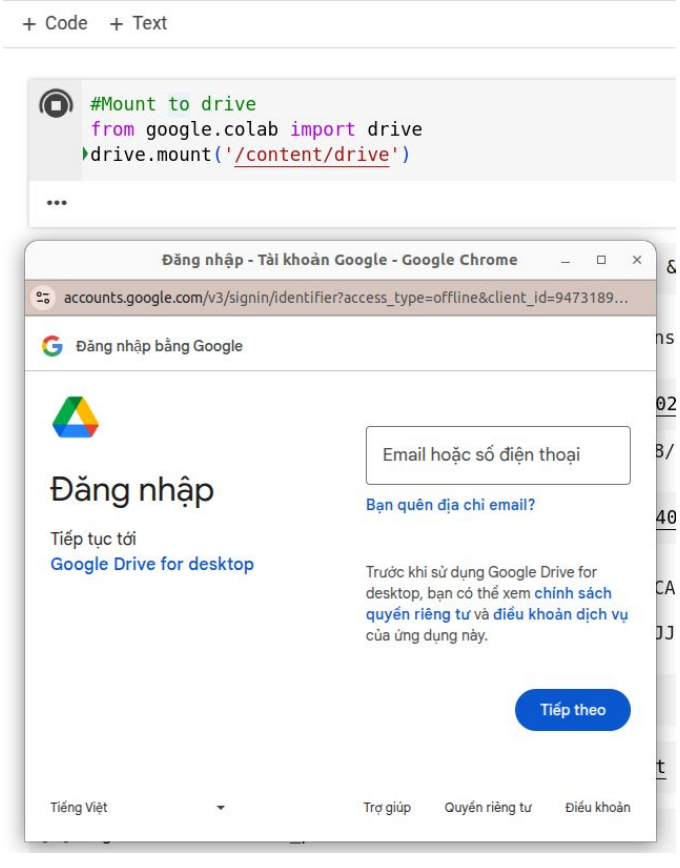
Input file

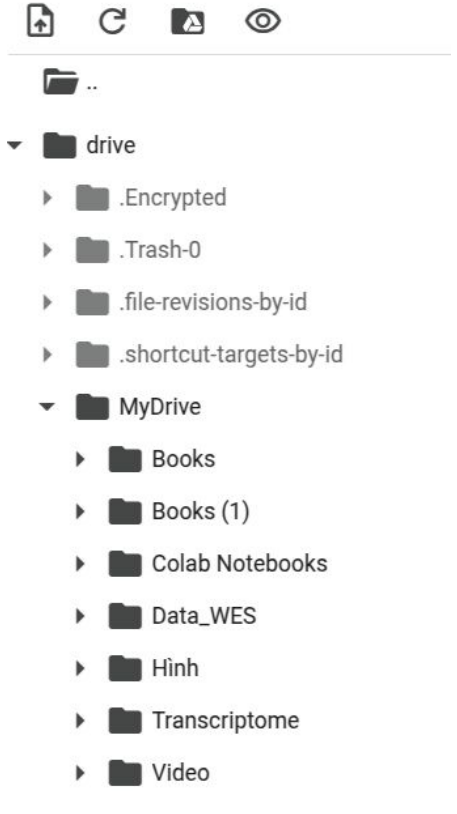
- From local to colab



Input file

- From Drive to colab





Input file

- Download file from drive to colab

```
[ ]  !gdown 1WBkCxx8HWv_p2LaKvJOcLwXKA-bABMfL
```

```
Downloading...
From (original): https://drive.google.com/uc?id=1WBkCxx8HWv_p2LaKvJOcLwXKA-bABMfL
From (redirected): https://drive.google.com/uc?id=1WBkCxx8HWv_p2LaKvJOcLwXKA-bABMfL&confirm=t&uuid=30a80dbd-9eb1-4780-aa89-ac
To: /content/SRR3405028_2_downsampled.fastq.gz
100% 901M/901M [00:07<00:00, 123MB/s]
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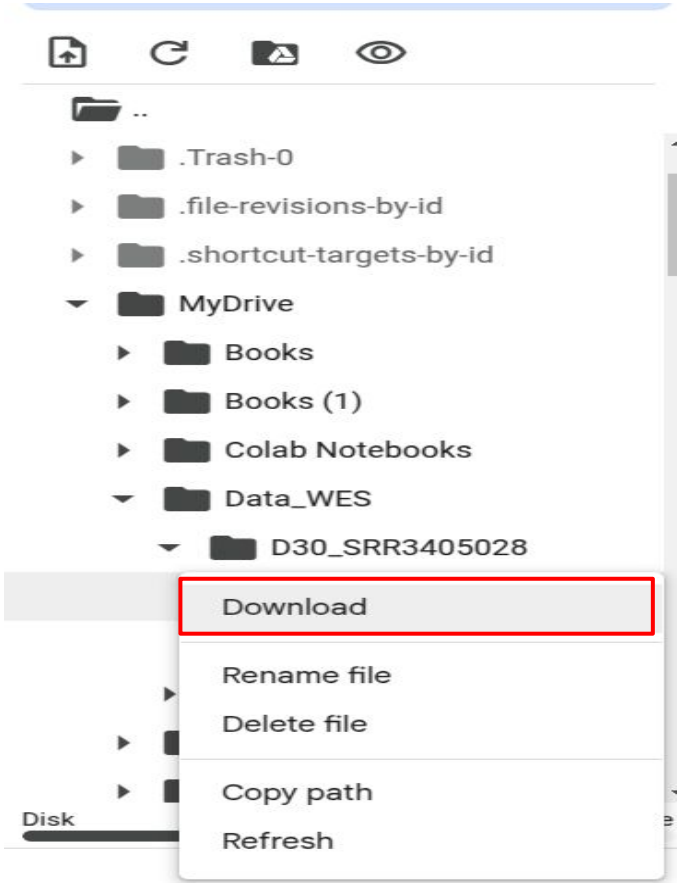
Output file

- Download file to local




THANK YOU
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