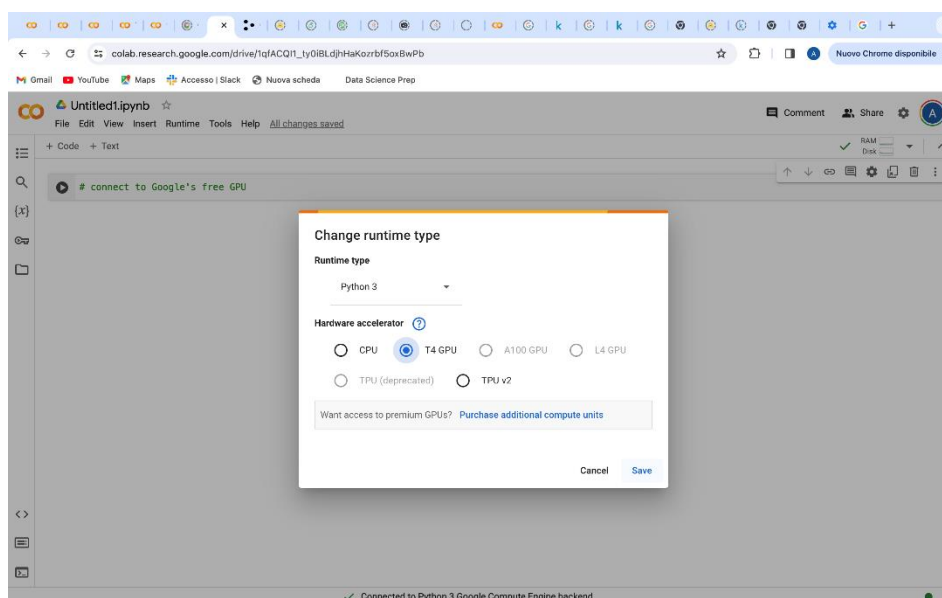
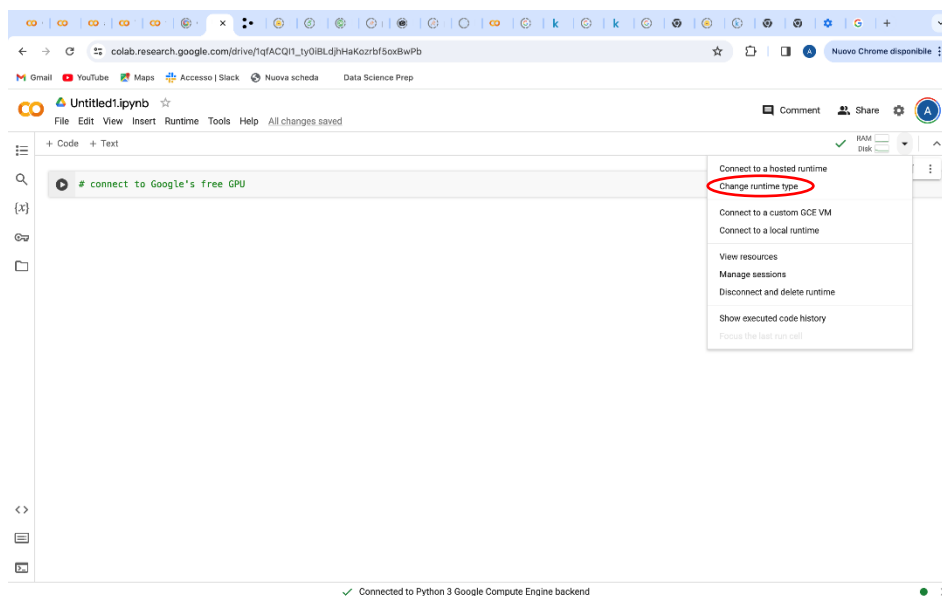


# GETTING STARTED

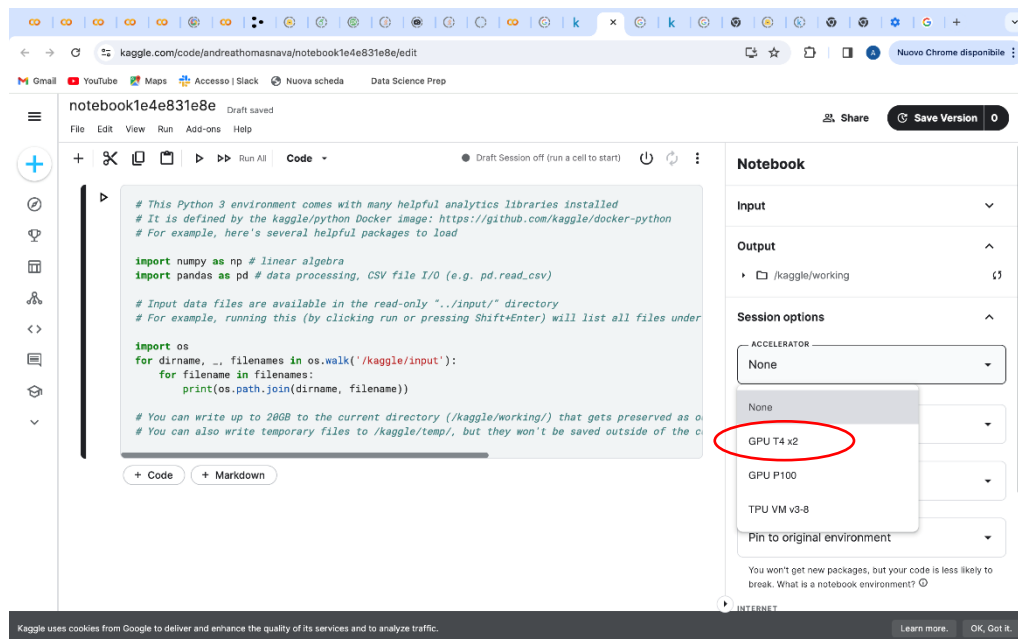
## GOOGLE COLAB & KAGGLE NOTEBOOK

For free GPU usage we recommend to use either Google Colab or Kaggle Notebooks. They both offer free (although limited) GPUs. In particular, we recommend Kaggle Notebooks. Here you will have access to two 15GB GPUs for 30 hours.

### ON GOOGLE COLAB ...



## ON KAGGLE NOTEBOOKS ...



The screenshot shows a Kaggle Notebook interface. The main area contains Python code for loading data from a directory. The right sidebar shows the 'Session options' panel, where the 'ACCELERATOR' dropdown is open, and 'GPU T4 x2' is selected and circled in red. The 'ENVIRONMENT' dropdown is set to 'Pin to original environment...'. At the bottom of the sidebar, the 'INTERNET' toggle is visible, which is also circled in red.

```
# This Python 3 environment comes with many helpful analytics libraries installed
# It is defined by the kaggle/python Docker image: https://github.com/kaggle/docker-python
# For example, here's several helpful packages to load

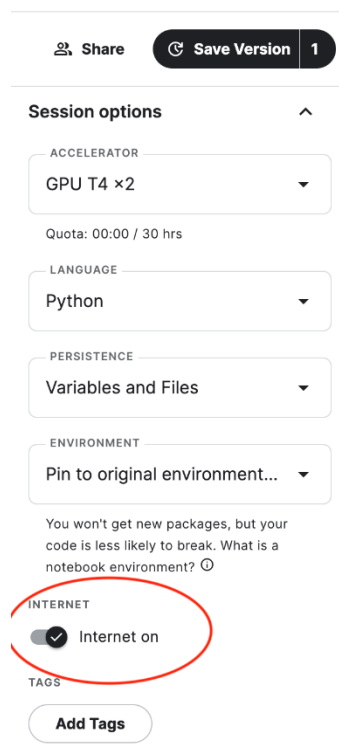
import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)

# Input data files are available in the read-only "../input/" directory
# For example, running this (by clicking run or pressing Shift+Enter) will list all files under the current directory

import os
for dirname, _, filenames in os.walk('/kaggle/input'):
    for filename in filenames:
        print(os.path.join(dirname, filename))

# You can write up to 20GB to the current directory (/kaggle/working/) that gets preserved as output when you create a new notebook
# You can also write temporary files to /kaggle/temp/, but they won't be saved outside of the current session
```

## AND IF WANT TO CONNECT TO THE INTERNET DO NOT FORGET TO CHANGE THE SETTINGS ...



This screenshot shows the 'Session options' panel on the right side of the Kaggle Notebook interface. The 'ACCELERATOR' is set to 'GPU T4 x2', 'LANGUAGE' is 'Python', and 'PERSISTENCE' is 'Variables and Files'. The 'ENVIRONMENT' is set to 'Pin to original environment...'. Below these options, a message states: 'You won't get new packages, but your code is less likely to break. What is a notebook environment?'. At the bottom, the 'INTERNET' toggle is turned on and circled in red. The 'TAGS' section at the very bottom has an 'Add Tags' button.

## HUGGING FACE

Most open-source deep learning model are available on Hugging Face: [Hugging Face – The AI community building the future.](#)

To use some of the models you will have to first log-in with your account (can create one for free) and create an access token (of write type).

The screenshot shows the Hugging Face user interface. On the left, the user's profile menu is visible, with 'Access Tokens' highlighted by a red circle. The main content area is titled 'Access Tokens' and includes a warning: 'Make sure to never post your tokens publicly!'. Below this, there is a list of user access tokens. Each token entry shows the model name (e.g., 'SentenceTransformer', 'Gemma2B', 'xcomet', 'Hackathon'), the permission level ('WRITE'), and a 'Manage' button. The 'WRITE' permission for the 'Hackathon' token is circled in red. At the bottom of the list, there is a 'New token' button, also circled in red.

THEN COPY THE TOKEN IN YOUR NOTEBOOK ...

```
# HF's access token
from huggingface_hub import notebook_login
notebook_login()
```



Copy a token from your Hugging Face tokens page and paste it below.  
Immediately click login after copying your token or it might be stored in  
plain text in this notebook file.

Token:

☒ Add token as git credential?

Login

**Pro Tip:** If you don't already have one, you can create a dedicated  
'notebooks' token with 'write' access, that you can then easily reuse for all  
notebooks.

## ***GET STARTED NOTEBOOKS***

We provide some boiler plate code to get you started with:

- 1) using a model from Hugging Face;
- 2) working with audio files in python;
- 3) generate a valid submission file.

## ***OTHER RESOURCES YOU MIGHT FIND USEFUL***

Hugging Face Transformer library: [Quick tour \(huggingface.co\)](https://huggingface.co/docs/transformers/quicktour)

Librosa library: [Tutorial — librosa 0.10.2 documentation](https://librosa.org/doc/latest/tutorial.html)