

CEI.

# Data Science in Python

TIEMPO Y CONTENIDO

EVALUCIÓN

TECH STACK

CEI.

# TIEMPO Y CONTENIDO

## TIEMPO

- 19 días (57 horas)
  - lunes a jueves hasta el miércoles 4 dic.

## CONTENIDO

- Python
- Data Science
- Machine Learning
- Big Data



# EVALUACIÓN

## EXÁMEN

- 2 de Diciembre

## PROYECTO

- El 26 de Noviembre elegiremos un set de datos cada uno, trabajaremos sobre él y se entregará el último día.

## NOTEBOOK (opcional)

- Apuntes de clase



# TECH STACK

## LANGUAGE

- PYTHON 3.13
- pyenv ( si fuese necesario )

## GESTOR PAQUETES

- UV

## IDE

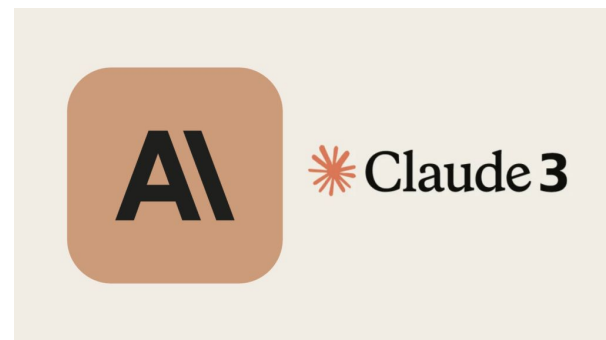
- JUPYTER NOTEBOOK

## GESTOR DE CÓDIGO

- GIT



# DISCLOSURE



# TECH STACK

CEI.

# COLAB



Welcome To Colaboratory

File Edit View Insert Runtime Tools Help

+ Code + Text Copy to Drive

Connect Editing

## What is Colaboratory?

Colaboratory, or "Colab" for short, allows you to write and execute Python in your browser, with

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

Whether you're a **student**, a **data scientist** or an **AI researcher**, Colab can make your work easier. Watch [Introduction to Colab](#) to learn more, or just get started below!

### Getting started

The document you are reading is not a static web page, but an interactive environment called a **Colab notebook** that lets you write and execute code.

For example, here is a **code cell** with a short Python script that computes a value, stores it in a variable, and prints the result:

```
[ ] seconds_in_a_day = 24 * 60 * 60
seconds_in_a_day
```

86400

Blog-Debugging.ipynb ☆

PRO File Edit View Insert Runtime Tools Help All changes saved

+ Code + Text

```
[1] !pip install -Uqq ipdb
import ipdb

Building wheel for ipdb (setup.py) ... done

[9] def fib(n):
    if n <= 1:
        return n

    arr = [0, 1]
    for i in range(2, n+1):
        arr.append(arr[i-1]+arr[i-2])

    return arr[n]

[10] fib(8)

21

!pdb off

Automatic pdb calling has been turned OFF
```



# DEPENDENCIAS

## PYTHON

- **FROM WEBSITE**
  - <https://www.python.org/>
- **USING PYENV**
  - <https://k0nze.dev/posts/install-pyenv-venv-vscode/>

## GESTOR DE PAQUETES

- **UV**
  - <https://docs.astral.sh/uv/>

## NOTES

- **jupyter notebook**
  - `uv add jupyter notebook`

C.