



# BIENVENIDOS

DATA SCIENCE FEM



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01

COMUNIDAD

02

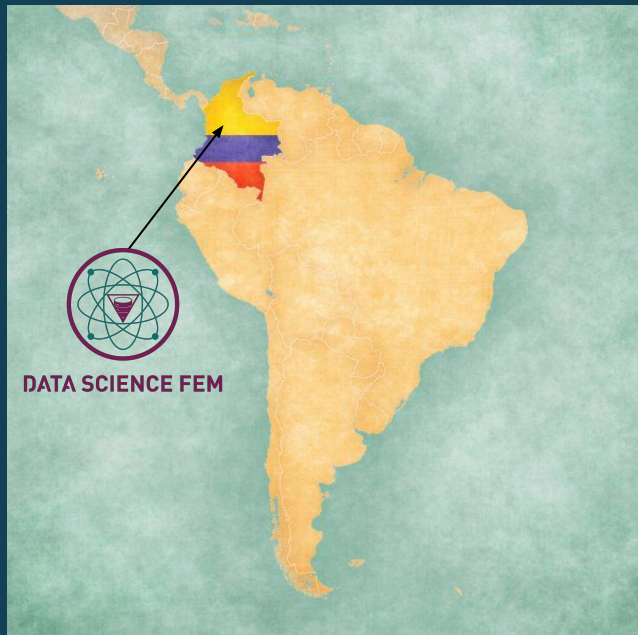
PYTHON

03

ANÁLISIS DE DATOS



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Aprendizaje Colaborativo

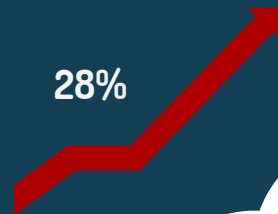


Eventos y Conferencias



30%

28%





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## EL EQUIPO DE HOY



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- 😊 Fácil de usar
- 😊 Rápido y eficiente
- 😊 Gran comunidad online
- 😊 Ampla cantidad de librerías específicas





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# PARA TENER EN CUENTA...



## DATAFRAME

estructuras de datos de dos dimensiones que pueden contener datos de diferentes tipos



## SERIES

estructura de datos en de 1 dimensión



## LISTAS

Estructura de datos de Python que contiene diferentes tipos de datos y es mutable



# TIPOS DE DATOS...



## Enteros (int)

mostly of hydrogen and helium

12

12,3

## Decimales (float)

Despite being red, Mars is actually a cold place



6/12/2020

## Timestamp (datetime)

Jupiter is a gas giant and the biggest planet in our Solar System



'Hola'

## Strings (object)

Venus has a beautiful name, but it's terribly hot



True / False

## Booleanos (object)

Neptune is the farthest planet from the Sun





# FORMAS DE NOMBRAR...



## DATASET

Conjunto de datos  
Datos



## FILAS

Registros  
Instancias



## COLUMNAS

Campos  
Características



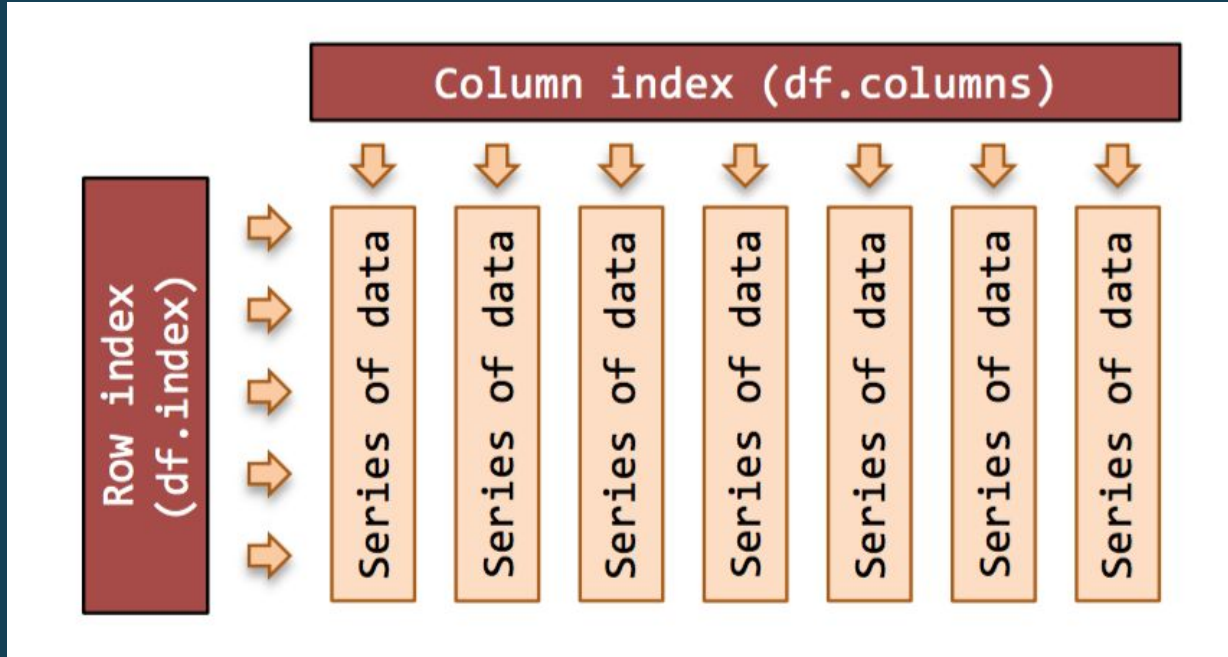




Diagram illustrating the structure of a DataFrame (df) with annotations for axes and data types.

**Annotations:**

- df.index**: Points to the index column (0 to 9).
- axis=1**: Horizontal arrow indicating the column axis.
- df.columns**: Points to the column headers (Date, Observer, Temperature, Rainfall).
- axis=0**: Vertical arrow indicating the row axis.
- df.values**: Points to the data values in the table.

	Date	Observer	Temperature	Rainfall
0	2019-06-01	Bob	71.1	0.00
1	2019-06-02	Carol	71.2	0.12
2	2019-06-03	Ted	73.2	0.11
3	2019-06-04	Alice	67.8	0.00
4	2019-06-05	Bob	69.8	0.51
5	2019-06-06	Alice	67.4	0.43
6	2019-06-07	Ted	71.8	0.02
7	2019-06-08	Alice	74.7	0.00
8	2019-06-09	Bob	69.8	0.21
9	2019-06-10	Carol	69.2	0.32

**Data Types (dtype) for columns:**

- Date: dtype datetime64
- Observer: dtype object
- Temperature: dtype float
- Rainfall: dtype float



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ANÁLISIS DE DATOS





Data source

Getting **good** data

Id	Name	Salary	...	Gender
1	Mary Ann	\$35 000	....	Female
2	Marc Downey	\$55 000	....	Male
..	....	....	....	....
51	Juliet Ali	\$45 000	....	Female
...	...	....	....	....
317	Jane Ace	\$95 000	....	Female

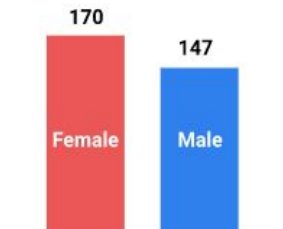
Understand how the data is **structured** and **measured**



Organize the data in **comprehensible** forms to find patterns

Visualize the patterns

Gender	Frequency
Male	147
Female	170



# ¡GRACIAS!



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