

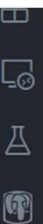


The image shows a screenshot of a Jupyter Notebook environment within the Visual Studio Code editor. On the left side, the 'EXPLORADOR' (Explorer) panel is open, showing a file tree with a folder named 'COURSERA'. Inside this folder, the file 'DataScienceEcosystem.ipynb' is selected and highlighted. Below the file tree, there are tabs for 'ESQUEMA' (Schema) and 'LÍNEA DE TIEMPO' (Timeline). The main editor area on the right displays the content of the selected notebook, which is a title 'Data Science Tools and Ecosystem'. Above the title, there is a breadcrumb navigation path: 'Coursera > DataScienceEcosystem.ipynb > M+ Data Science Tools and Ecosystem'. Below the breadcrumb, there are several icons for interacting with the notebook: a plus sign for 'Código' (Code), a plus sign for 'Markdown', a play button for 'Ejecutar todo' (Run all), a trash icon for 'Borrar todas las salidas' (Delete all outputs), and a list icon for 'Esquema' (Schema). In the top right corner of the editor, there is a button labeled 'Seleccionar el kernel' (Select the kernel). The bottom status bar shows the current file is 'main\*' and there are 0 errors, 0 warnings, and 0 info messages. The bottom right corner indicates 'Celda 1 de 1' (Cell 1 of 1).



In this notebook, Data Science Tools and Ecosystem are summarized.





Some of the popular languages that Data Scientists use are:

1. Python: A versatile and widely-used language for data science, with a rich ecosystem of libraries and tools.
2. R: A domain-specific language for statistical computing and graphics, commonly used in academia and research.
3. SQL: A language for managing and manipulating relational databases, essential for working with large datasets.
4. Julia: A high-level, high-performance language for numerical and scientific computing, gaining popularity in data science.



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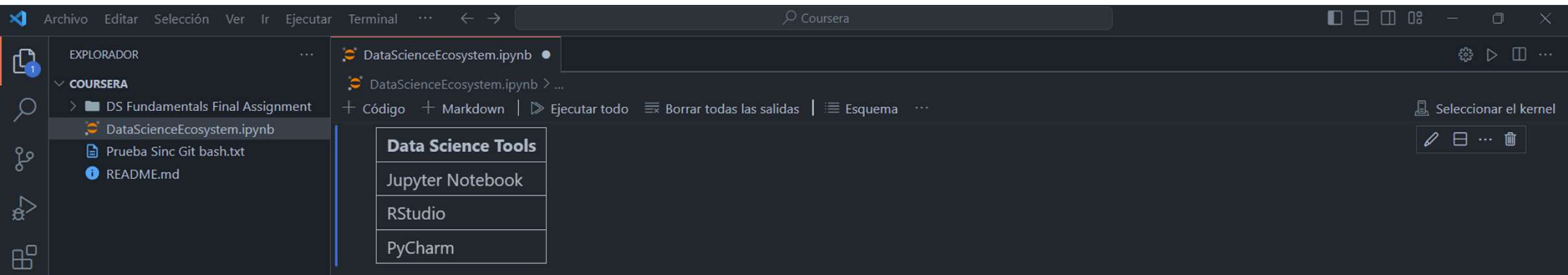
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Python 3.12.3

Some of the commonly used libraries used by Data Scientists include:

1. NumPy: A library for numerical computing in Python.
2. Pandas: A library for data manipulation and analysis in Python.
3. Matplotlib: A library for data visualization in Python.
4. Scikit-learn: A library for machine learning in Python.



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Below are a few examples of evaluating arithmetic expressions in Python

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```
# This a simple arithmetic expression to mutiply then add integers  
(3*4)+5
```

[3]

... 17

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```
# This will convert 200 minutes to hours by diving by 60

print('La conversion de 200 minutos a horas es:',200/60)
```

[4] Python

... La conversion de 200 minutos a horas es: 3.3333333333333335

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Python 3.12.3

# Data Science Tools and Ecosystem

In this notebook, Data Science Tools and Ecosystem are summarized.

**Objectives:**

- Open a notebook in Jupiter and give it a name
- Learn how to make a markdown in Jupiter's notebook
- Perform simple arithmetic operations
- Learn how to use different tools in markdown mode such as: highlighting text, adjusting the size of headings, displaying ordered lists, among others.

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Python 3.12.3

Author

Gustavo Fernandez

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Python 3.12.3

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ESQUEMA

LÍNEA DE TIEMPO

main\*

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Select Postgres Server

CRLF

Celda 9 de 9

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