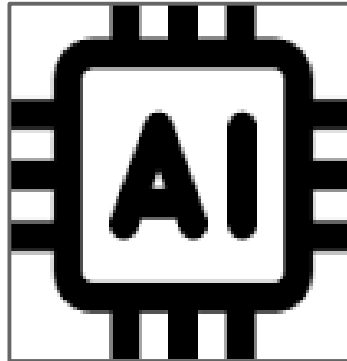


Introducción a la Inteligencia Artificial



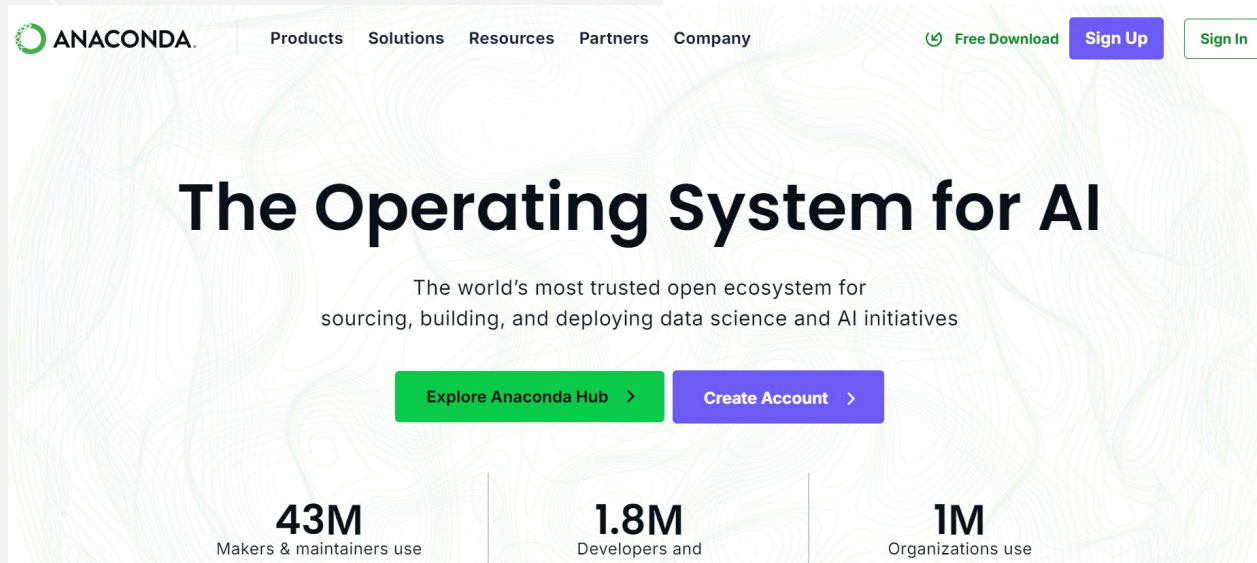
Configuración del Entorno de Trabajo para IA

Objetivo

El objetivo de este módulo es proporcionar a los estudiantes las habilidades necesarias para configurar un entorno de desarrollo eficiente para proyectos de Inteligencia Artificial, utilizando Anaconda, Visual Studio Code y Jupyter Notebooks. Al finalizar, los alumnos serán capaces de instalar y utilizar estas herramientas, creando un flujo de trabajo óptimo para el desarrollo y experimentación en IA.

¿Qué es Anaconda?

Distribución de Python para Ciencia de Datos y Machine Learning.



The screenshot shows the Anaconda website homepage. At the top, there is a navigation bar with the Anaconda logo, links for Products, Solutions, Resources, Partners, and Company, and buttons for Free Download, Sign Up, and Sign In. The main heading is "The Operating System for AI". Below this, a subheading states: "The world's most trusted open ecosystem for sourcing, building, and deploying data science and AI initiatives". There are two prominent buttons: "Explore Anaconda Hub" and "Create Account". At the bottom, three statistics are displayed: "43M Makers & maintainers use", "1.8M Developers and", and "1M Organizations use".

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Explore Anaconda Hub > Create Account >

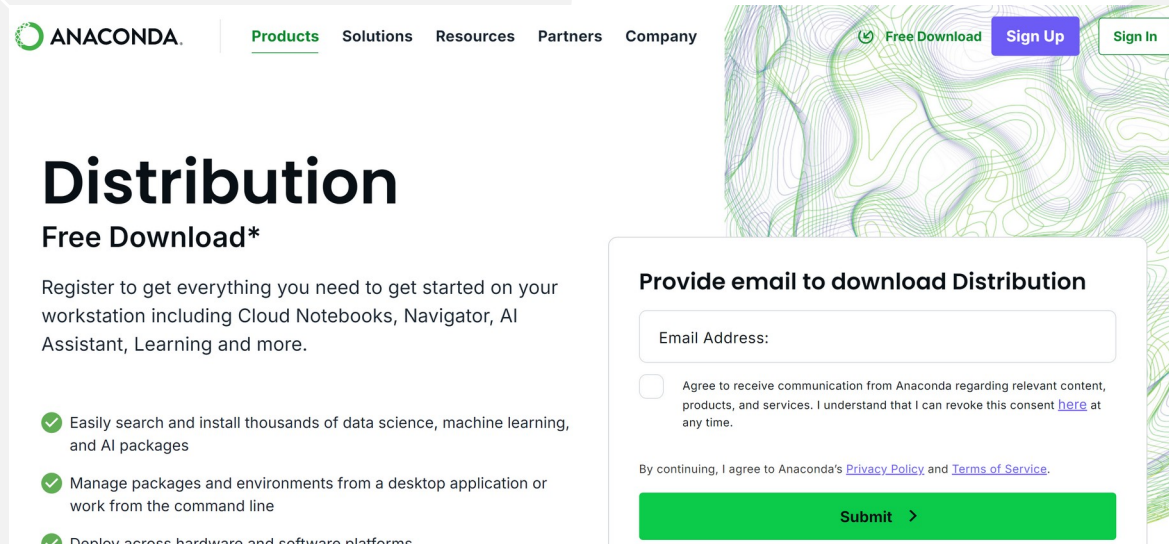
43M
Makers & maintainers use

1.8M
Developers and

1M
Organizations use

Descarga de Anaconda

*Visitá anaconda.com/download y seleccioná tu sistema operativo.
Seguí las instrucciones por defecto.*



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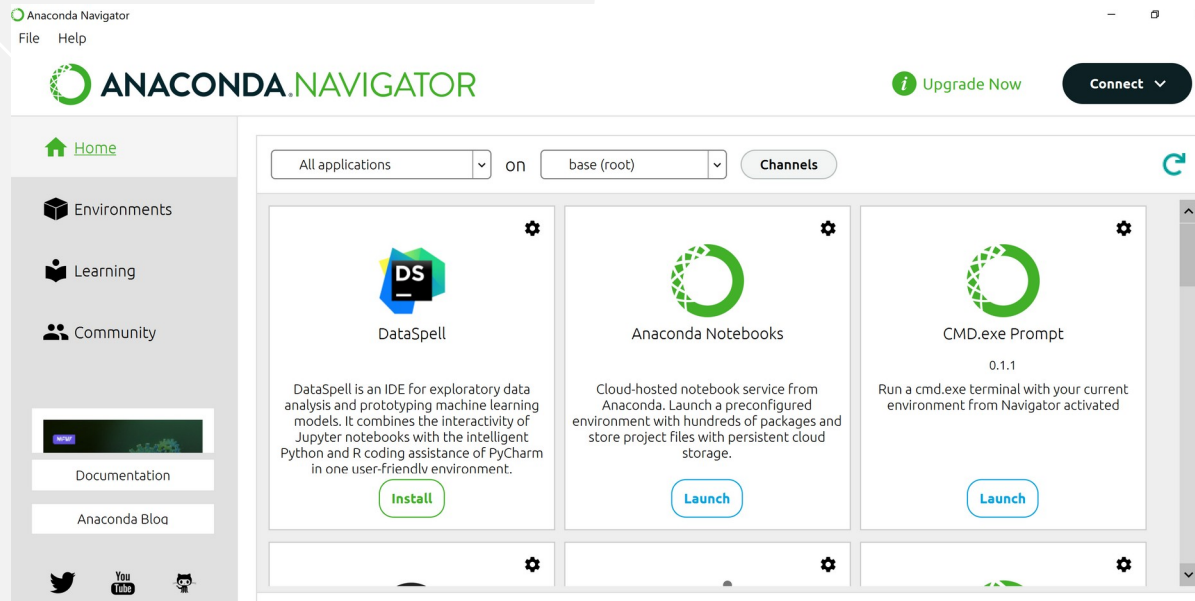
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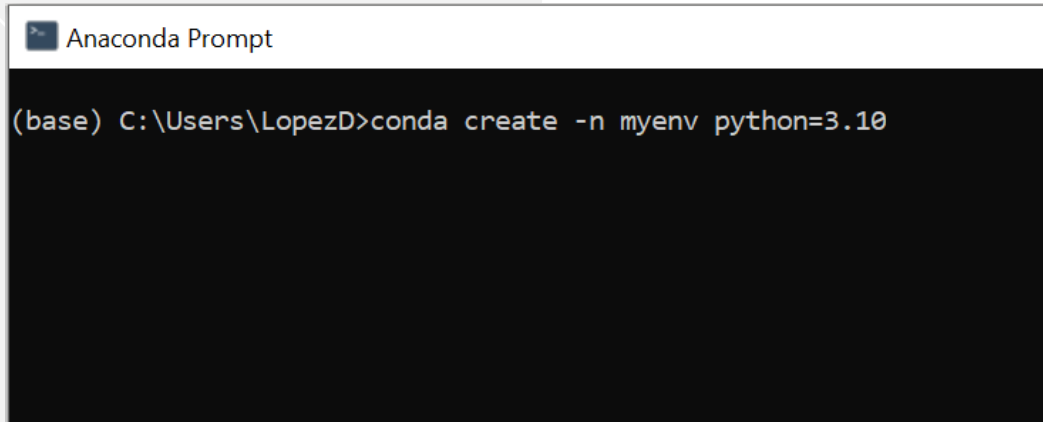
Anaconda Navigator

Interfaz gráfica para gestionar entornos y aplicaciones.



Creación de un Entorno Virtual

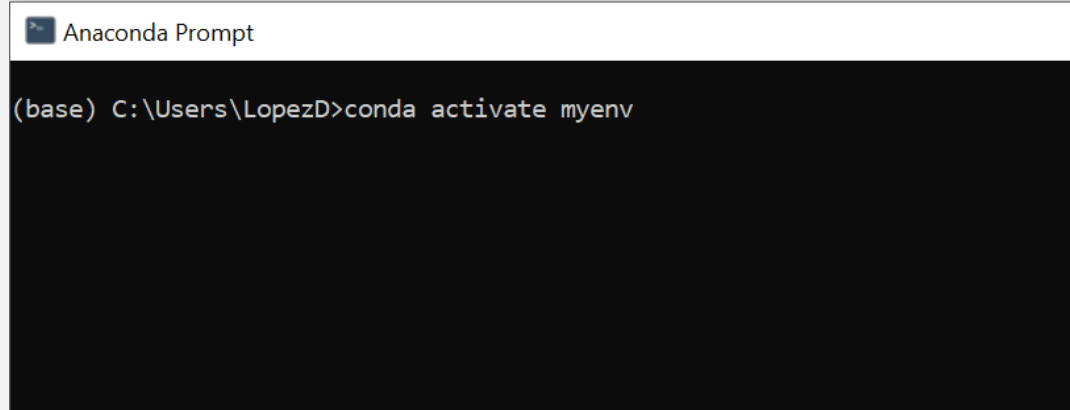
Creá un entorno aislado con "conda create -n myenv python=3.10"

A screenshot of the Anaconda Prompt terminal window. The title bar at the top reads "Anaconda Prompt". The terminal content shows the command `(base) C:\Users\LopezD>conda create -n myenv python=3.10` entered at the prompt. The background of the terminal is black, and the text is white.

```
(base) C:\Users\LopezD>conda create -n myenv python=3.10
```

Activación del Entorno

Activá tu entorno con "conda activate myenv"

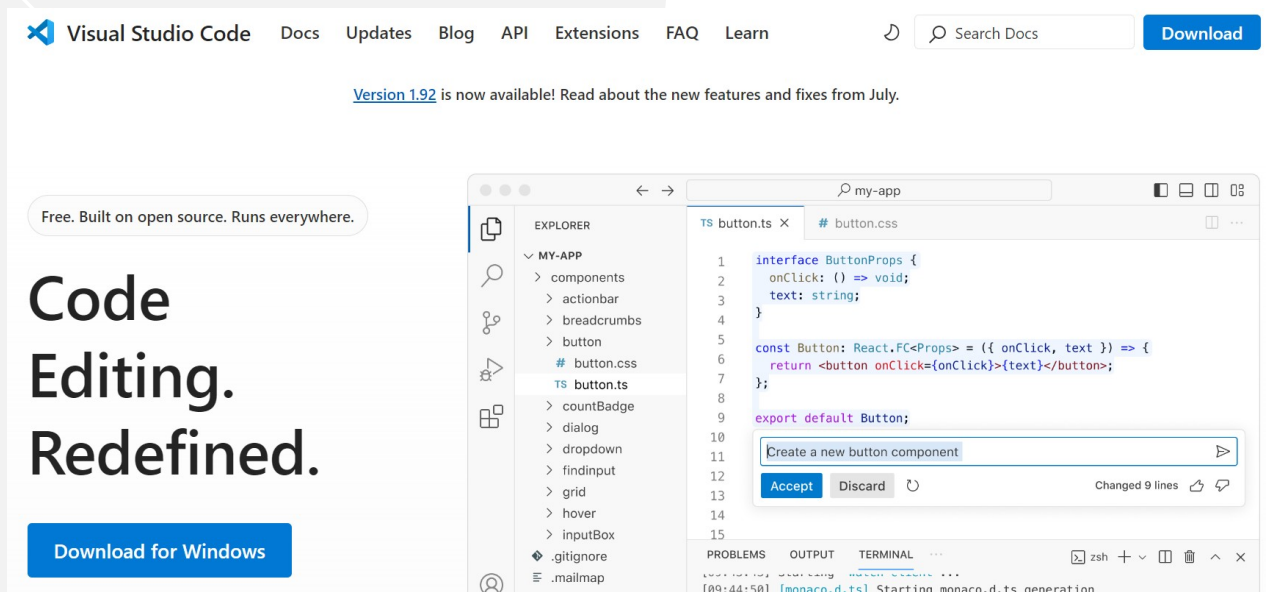


```
Anaconda Prompt

(base) C:\Users\LopezD>conda activate myenv
```

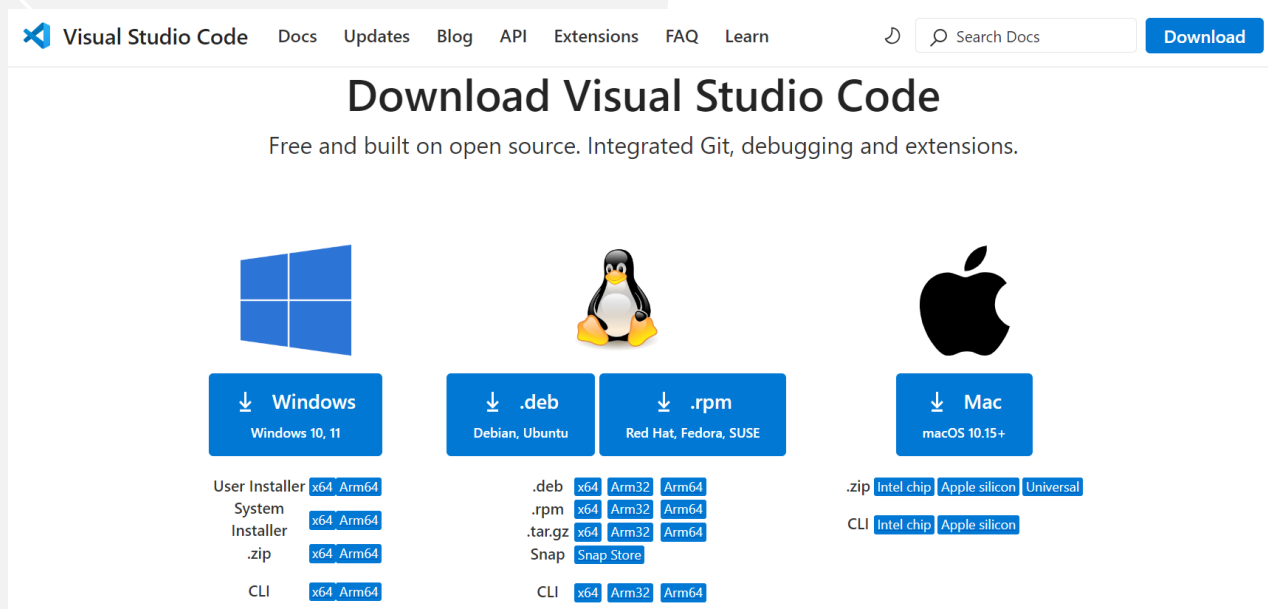
¿Qué es VS Code?

Editor de código versátil con soporte para Python e IA.



Instalación de VS Code

Descargá e instalá desde code.visualstudio.com.

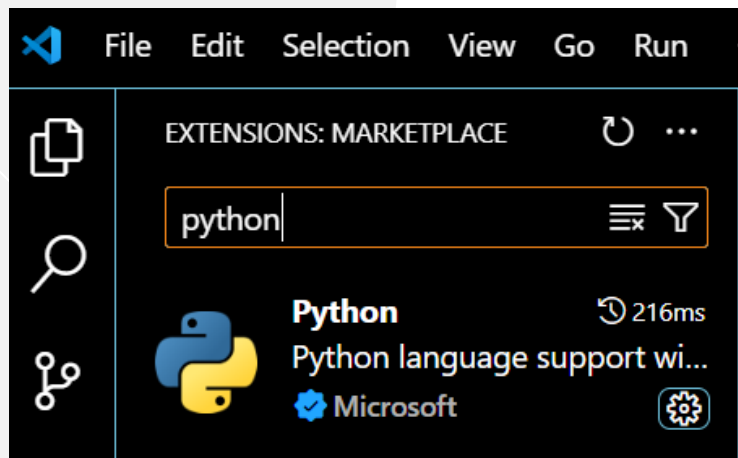


The screenshot shows the Visual Studio Code download page. At the top, there's a navigation bar with links: Visual Studio Code, Docs, Updates, Blog, API, Extensions, FAQ, Learn, and a Search Docs box. A 'Download' button is on the right. The main heading is 'Download Visual Studio Code' with the tagline 'Free and built on open source. Integrated Git, debugging and extensions.' Below this, there are three main sections for operating systems: Windows, Linux, and Mac. Each section has a download button and a list of available installers.

Operating System	Download Button	Available Installers
Windows	Windows 10, 11	User Installer (x64, Arm64), System Installer (x64, Arm64), .zip (x64, Arm64), CLI (x64, Arm64)
Linux	.deb (Debian, Ubuntu), .rpm (Red Hat, Fedora, SUSE)	.deb (x64, Arm32, Arm64), .rpm (x64, Arm32, Arm64), .tar.gz (x64, Arm32, Arm64), Snap (Snap Store), CLI (x64, Arm32, Arm64)
Mac	Mac (macOS 10.15+)	.zip (Intel chip, Apple silicon, Universal), CLI (Intel chip, Apple silicon)

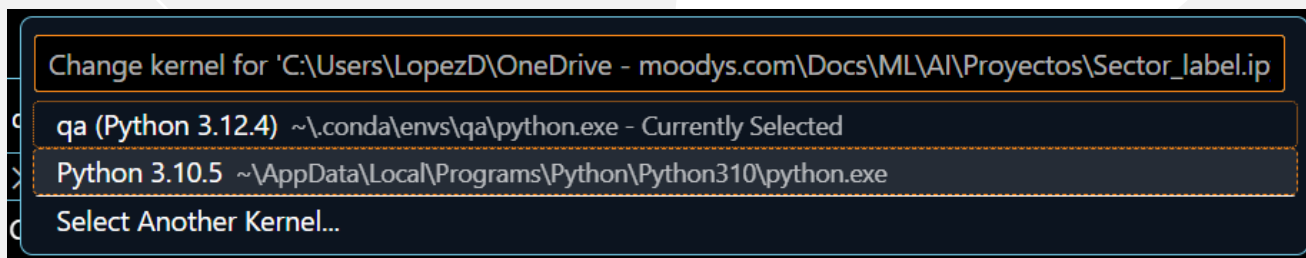
Configuración de VS Code para Python

Instalá la extensión de Python.



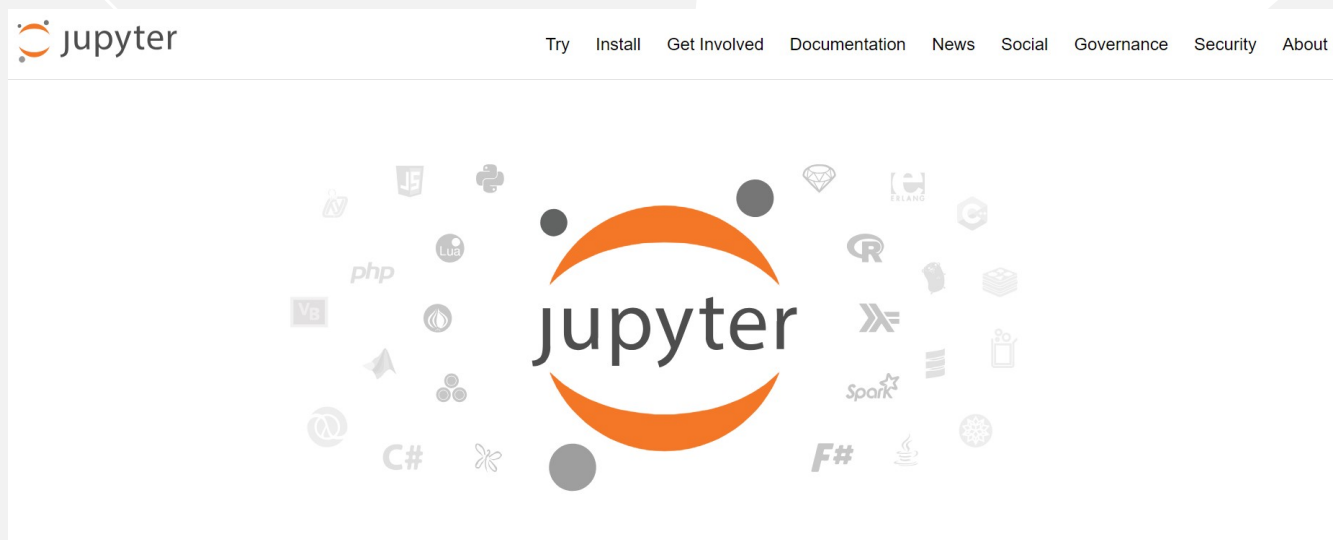
Integración de Anaconda con VS Code

Seleccioná tu entorno de Anaconda en VS Code.



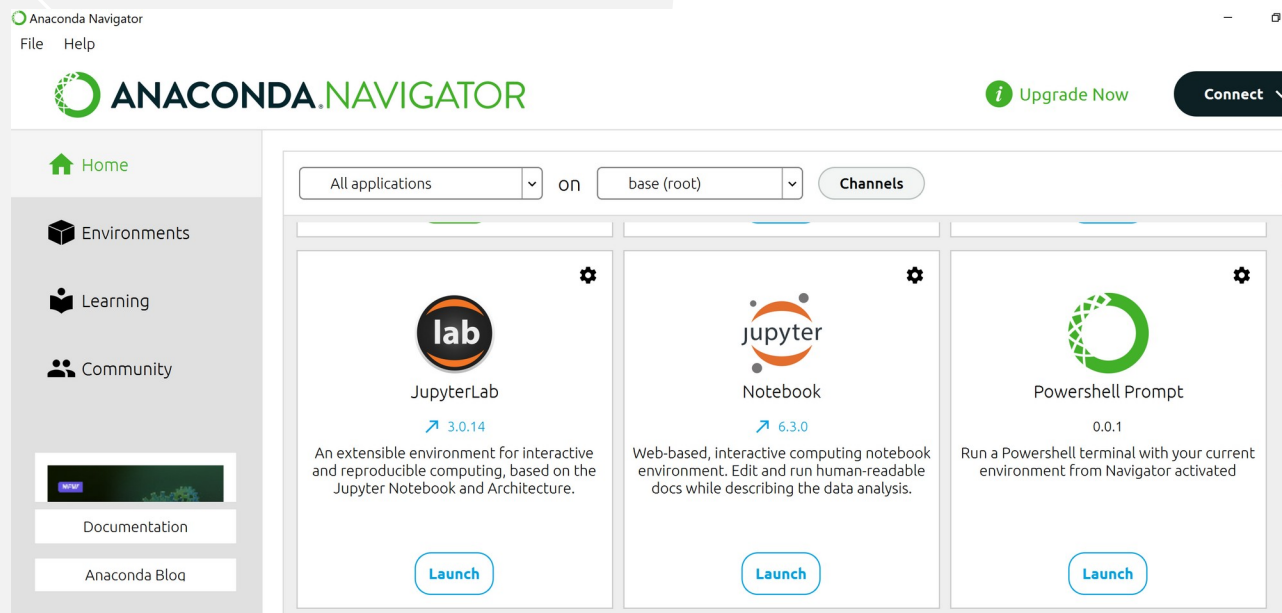
¿Qué son Jupyter Notebooks?

Documentos interactivos para código, texto y visualizaciones.



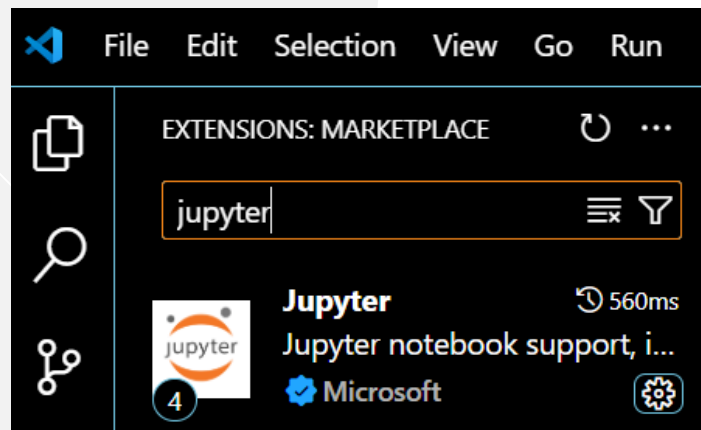
Jupyter en Anaconda Navigator

Iniciá Jupyter Notebook desde Anaconda Navigator.



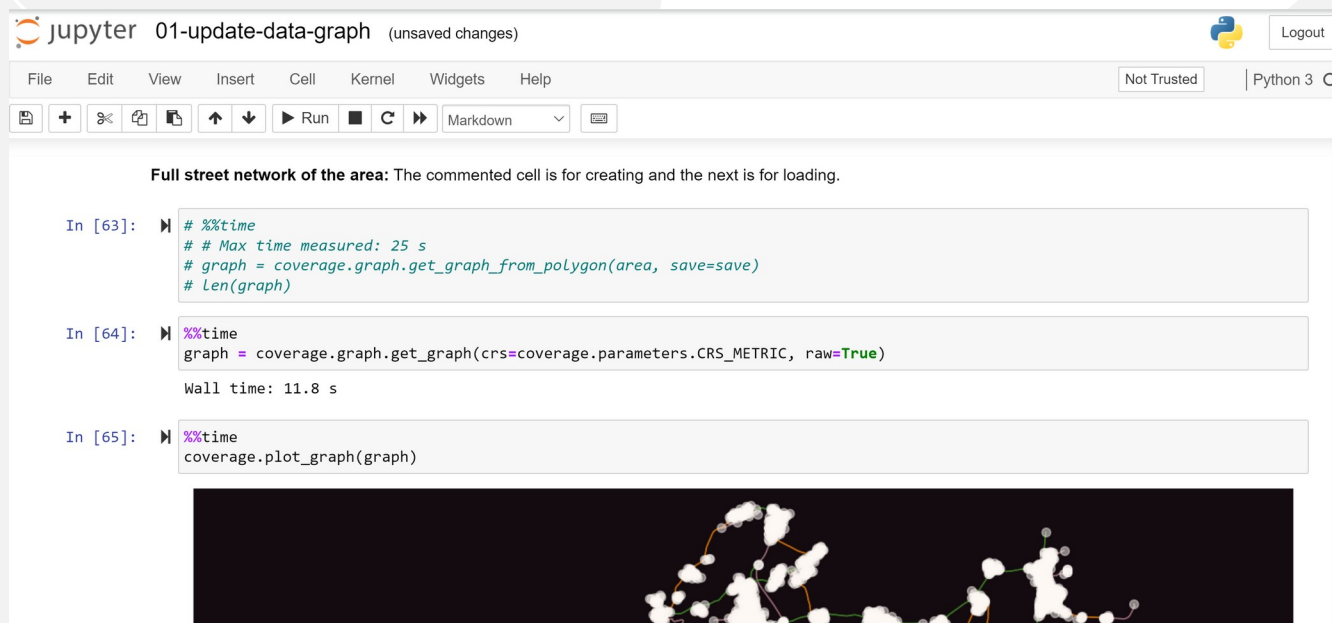
Jupyter en VS Code

Usa la extensión de Jupyter para crear notebooks..



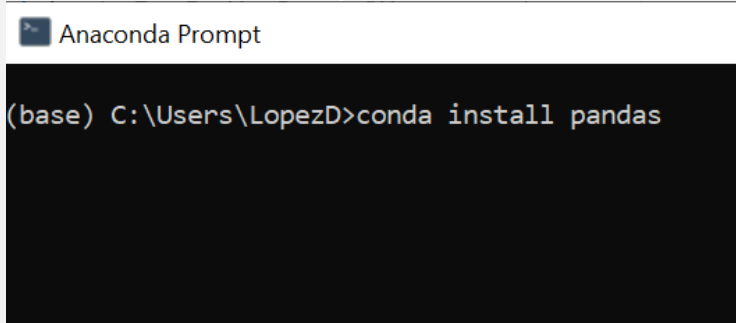
Estructura de un Jupyter Notebook

Alterná entre celdas de código y markdown.

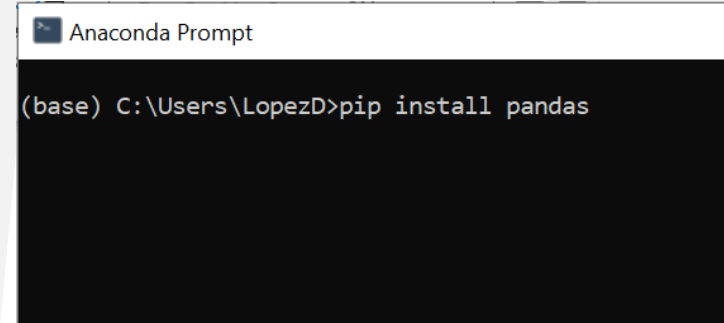


Instalación de Paquetes

Usa "conda install" o "pip install" para agregar librerías.

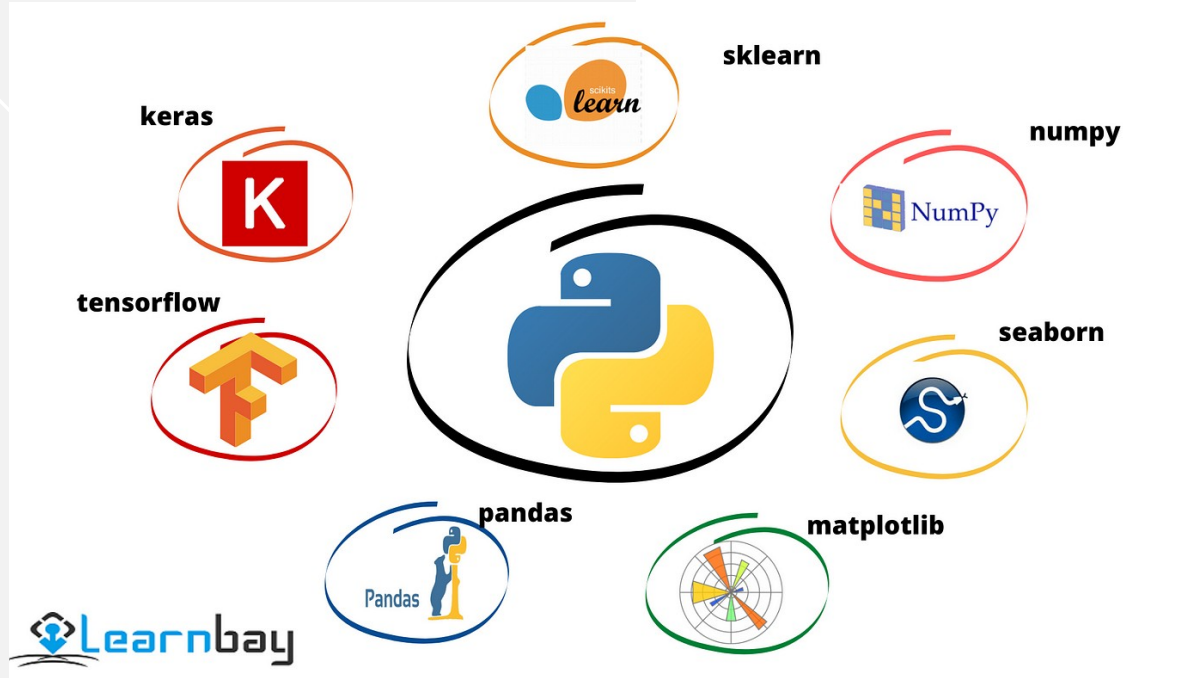


```
Anaconda Prompt  
(base) C:\Users\LopezD>conda install pandas
```



```
Anaconda Prompt  
(base) C:\Users\LopezD>pip install pandas
```

Paquetes Esenciales para IA



Buenas Prácticas

- *Mantené entornos separados para diferentes proyectos.*
- *Actualizá regularmente tus herramientas y paquetes.*
- *Documentá tu código exhaustivamente.*
- *Realizá copias de seguridad frecuentes de tus proyectos.*
- *Eliminá salidas innecesarias de tus notebooks.*

Fin

¿Preguntas?