**What is Plotly?**  
Plotly is an **interactive visualization library** that works with Jupyter Notebooks, web apps, and dashboards.

Unlike matplotlib (which makes static plots), Plotly lets you zoom, pan, hover over points, and interact with the data directly inside Jupyter Notebook, web apps, or even export them to HTML.

**Why use Plotly?**  
 **Interactive** → Zoom, hover, and pan  
 **Works with Pandas, NumPy**  
 **Web-ready** (integrates with Dash)

When we say **Plotly is web-ready**, we mean:

The charts it creates are not just static pictures — they are **interactive web components** (HTML + JavaScript).

That means they can:

* Run directly in a **web browser**.
* Be **embedded in websites or web apps**.
* Respond to **user actions** (hover, zoom, click, etc.).

**What is Dash**

**Dash** is a **Python web framework** created by the same team that built Plotly.

It lets you:

* Build **interactive data dashboards** and web applications — **entirely in Python**, without needing HTML, CSS, or JavaScript.
* Combine **Plotly charts**, **dropdowns**, **sliders**, **tables**, etc. to create a full-fledged **data analytics dashboard**.