# Construyendo reportes interactivos con Streamlit

Juan David Alzate Cardona





# Building interactive dashboards with Streamlit

Juan David Alzate Cardona





#### **About me**

- Software Engineer at Hourly.
- Physics lover.
- Python lover.
- Teaching lover.
- Dogs lover.



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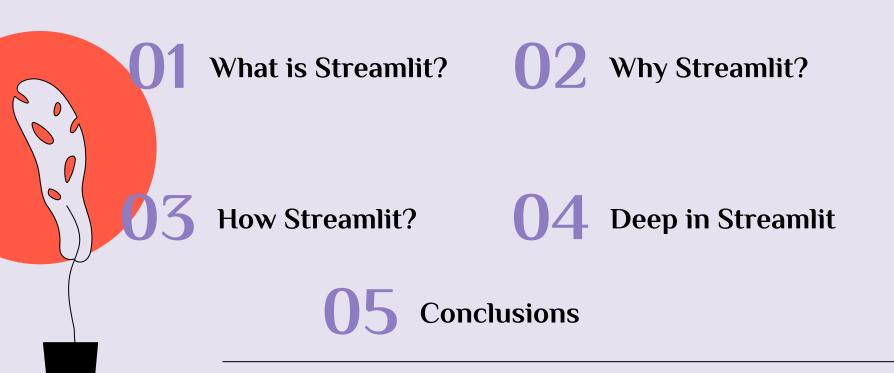


Garoso





#### **Table of contents**

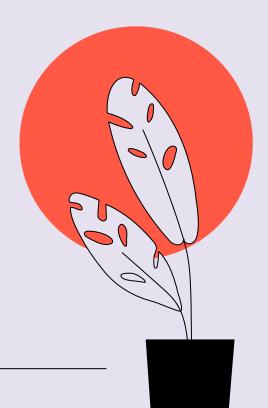


## Disclaimers



## Disclaimers

- I'm not a Data Scientist/Data Analyst/MLE..
- I really love Jupyter.





## What is Streamlit?





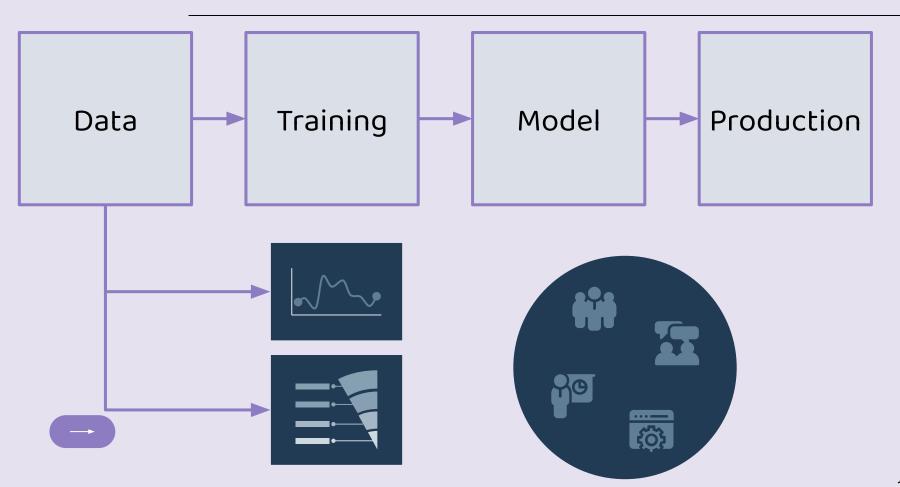
- A company.
- An open source
   Python library.

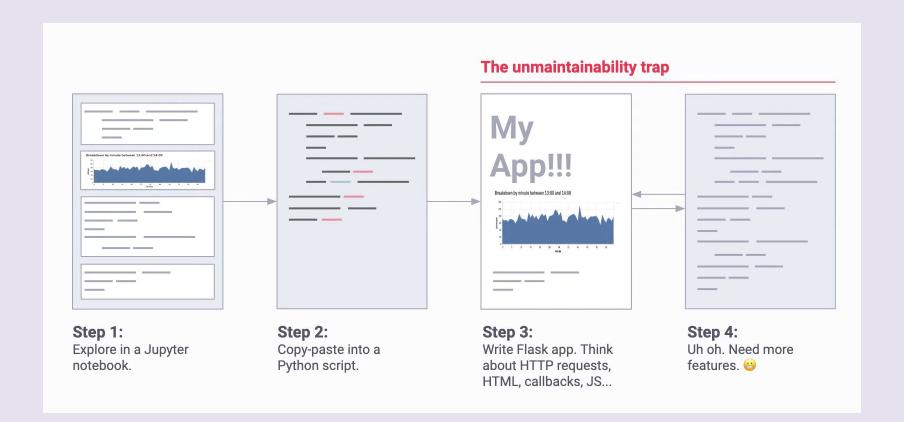


## 02 Why Streamlit?



















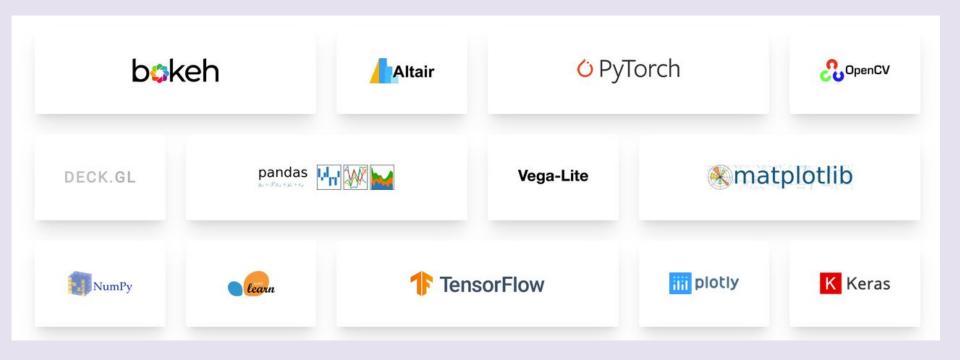


#### Some facts

- Trusted by over 50% of Fortune 50 companies.
- \$35 million in Series B funding.
- Exponential growth since 2019.
- Easy implementation.
- Open source.
- Community.
- Customization.
- Security.



## Compatible with



### Latest three minor versioning

#### December 2021

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

#### January 2022









## Principles



Treat widgets as variables



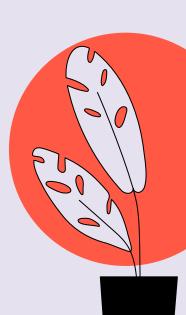
**Embrace Python Scripting** 



Reuse data and computation



**Deploy** instantly





## What you need to use Streamlit:

- Have basic Python knowledge.
- Write scripts to perform specific tasks.
- Read documentation (a lot).

#### **Installation**

```
~ pip install streamlit
...
~ streamlit version
Streamlit, version 1.5.0
~ streamlit hello
```





## 03 How Streamlit?





## Widgets

**lmage predictor** 

Computing  $\pi$ 

Titanic (as usual)

## 04 Deep in Streamlit





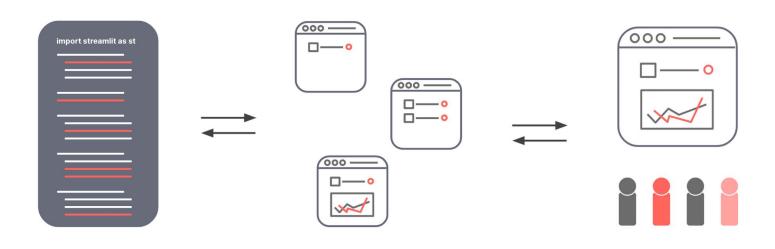
### **Components**







#### **Streamlit Cloud**



Get coding in minutes

Share apps with your team and iterate on them together

Publish apps to your company, get feedback, and quickly make updates to expand and improve them



## Some useful features

- Using the Session State.
- Exploring experimental features like experimental\_memo and experimental\_singleton.



## 

## Conclusions



#### Conclusions



- Many tools, all of them are great, some are more useful than others.
- Be curious about new tools for DS.
- Streamlit is great and easy to use.
- Everybody loves interactivity.



## Thanks!

Do you have any questions? jdalzatec@gmail.com

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## Thanks!

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