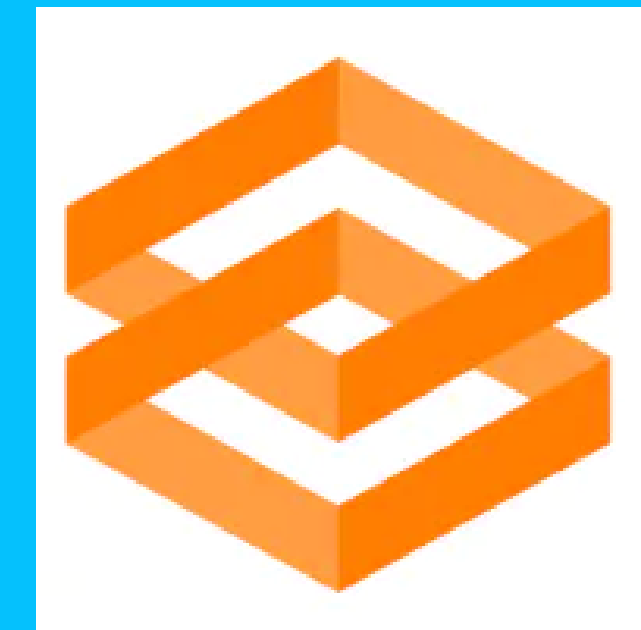
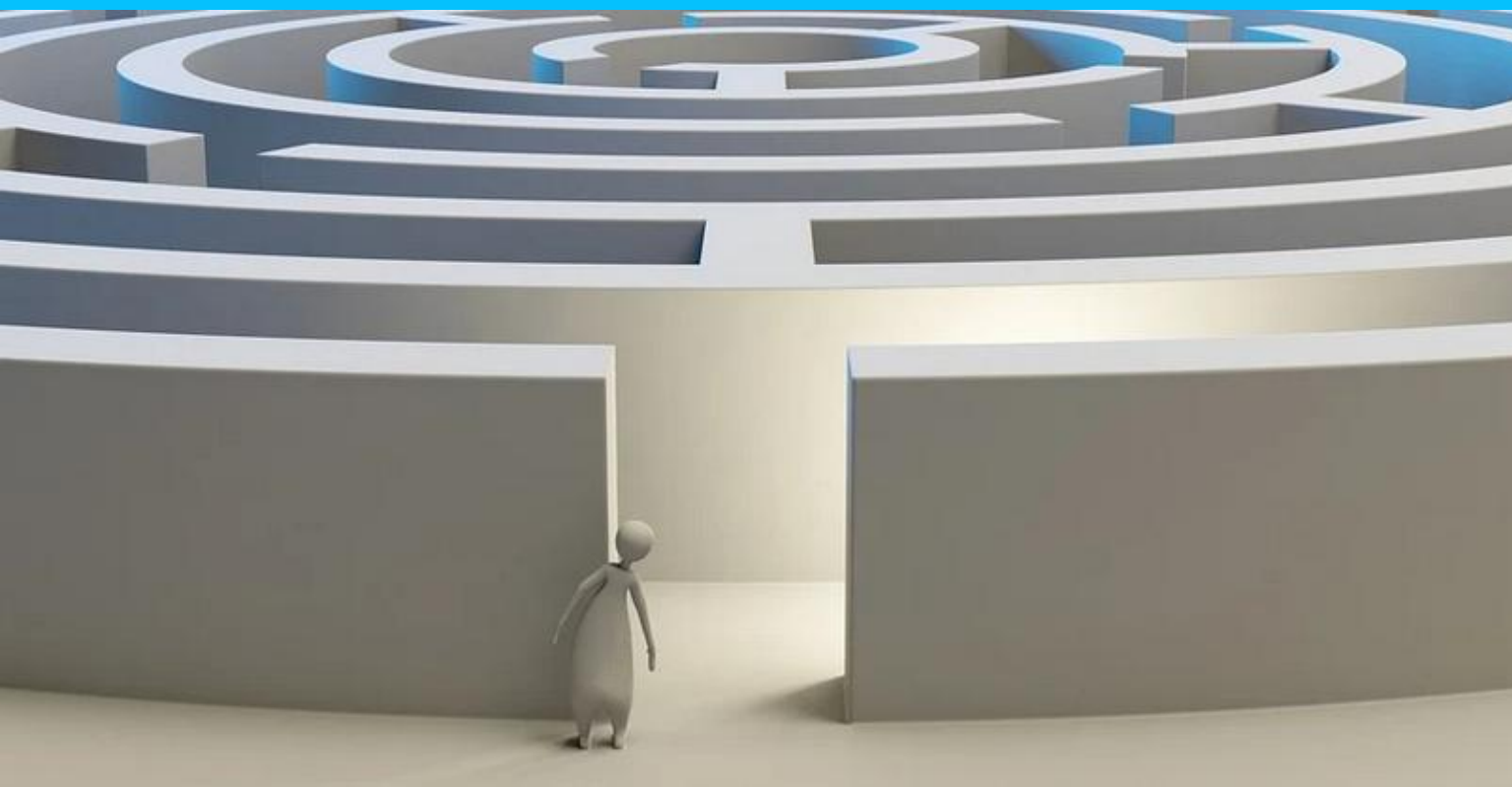


SIMPLIFYING PYTHON CODE DEPLOYMENT WITH GRADIO



**INTERACTIVE DEMO WITH
GRADIO THAT IS PRDN READY**

WHAT PROBLEM WE'RE FACING



SHARING PYTHON PROGRAMS

Creating a demo of the code or the product that you have built would need some kind of user interface. Building the user interface & connect it with your code is cumbersome

SERIES OF PROBLEM

- **LEARNING ABOUT UI**
- **PLACING THE UI COMPONENTS**
- **CREATING INTERACTIVE DEMO**

PYTHON ECOSYSTEM: GRADIO

HOW TO GET IT INTO MY OS?

- Install Python
- The do "pip install gradio"

WHERE CAN I LEARN ABOUT STREAMLIT

- Github GRADIO

<https://github.com/gradio-app/gradio>

- Gradio Quick Start

<https://docs.streamlit.io/library/api-reference>

- This Video

DATA SCIENCE ALTERNATIVE : STREAMLIT

Thanks to HuggingFace Team

HOW DOES GRADIO SOLVE PROBLEM

01

INTERFACE AS CLASS

- Predefined interfaces as python classes
- Inputs, Outputs & Functions are the parts
- Can contain AI / ML models too

02

FUNCTION DRIVE

- Python function do operations
- Parameters must match inputs
- Returned values match output

03

CLICK INTERACTION

- Click events triggers the function
- Data get collected from all inputs
- Raises Error if coded

04

DEPLOYMENT

- Deployed locally in LAN
- Deployed over internet using ngrok tunneling using public sharing

LETS PRACTICE!!!



SOME CHALLENGES

- Counting the num of characters
- Who said it : Quotes
- Mad Lib : 4 ~ 6 inputs << (example)
- Calculator : Multi functional

Some reference for inspiration

- Learn Python the Hard way
- Learn Problem solving through code
- Exercises For programmers 57 challenges