

# **RECIP.AI**

Generate an original recipe based on a dataset of recipes around the world while world ingredients

Roberto, Dídac, Joaquin, Angel, Audrey



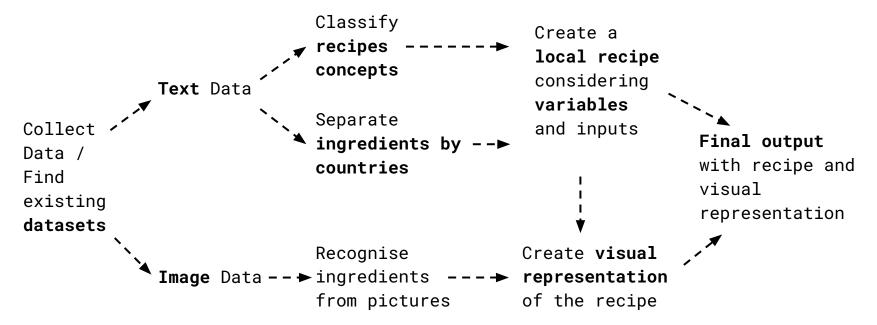
#### WHAT IS RECIP.AI?

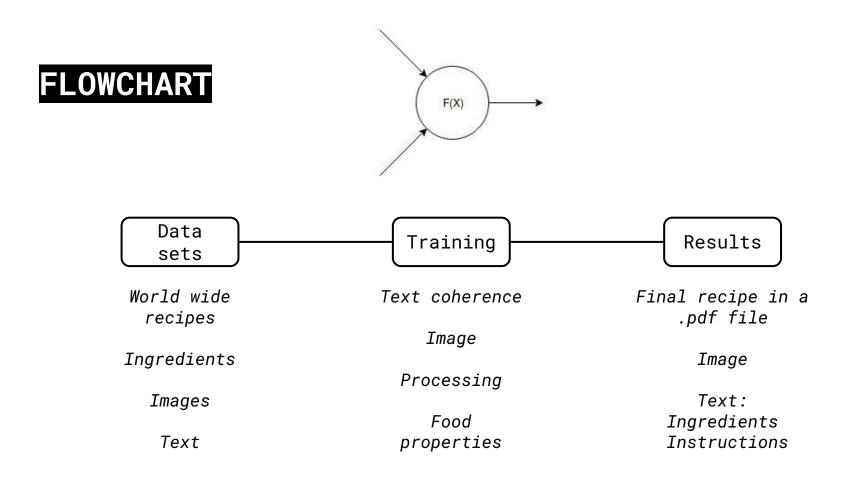
It is a tool that generates an original recipe based on a dataset of recipes around the world while using **local** ingredients.

Takes into account diverse variables: spice, color, health, difficulty...



### PROCESS





### DATASETS

1.Text data:

- $\circ$   $\;$  Recipes from all over the world  $\;$ 
  - <u>https://clickhouse.com/docs/en/getting-started/example-datas</u> <u>ets/recipes/</u>
  - https://www.yummly.com/
- - Taste Atlas API

https://www.tasteatlas.com/api/v3/regions/1/data

- 2. Image data: pictures from cooked dishes
  - Ex: <u>Recipe1M+</u> is a dataset which contains one million structured cooking recipes with 13M associated images.



#### LOCAL RECIPES



CHILE 📑

Chorrillana or bistec a la chorrillana is a popular Chilean dish served mostly in pubs where it is labeled as an appetizer or a dish that is meant to be shared. The basis of the meal are French fries which are covered in a combination of fried or scrambled eggs, strips of beef, and caramelized onions.

Common variations include additional ingredients like hot dogs, chorizo, and tomatoes, while the seasonings may include either garlic, oregano, or pebre—a popular Chilean condiment.

APPETIZER: POTATO DISH, REEF DISH

Chorrillana

(Choriflana, Bistec a la chorrillana)





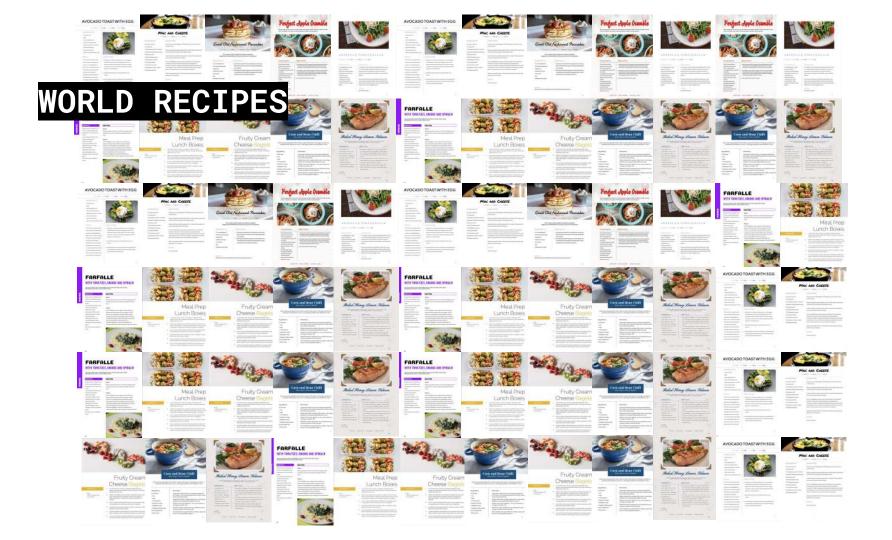
APPETIZER, POTATO DISH, BEEF DISH

#### Chorrillana

(Chorillana, Bistec a la chorrillana)

2

CHILE



#### NEURAL NETWORKS

### 1

Network to recognise and classify text from recipes

#### 2

Network to create recipes from local ingredients (recipes + local ingredients)

### 3

Network for image ingredient recognition (<u>http://pic2recipe.</u> <u>csail.mit.edu</u>)

### 4

Network to generate the image of the recipe from the ingredients list (VQGAN and CLIP)

#### Do you have to train a network?

We need to train a network to receive various inputs in the form of ingredients and deliver an output upon the basis of its molecular components and materiality.

#### EXISTING RESOURCES

#### Similar Projects



#### Existing Colabs



recipe\_generation\_rnn.ipynb

Recipe generation colab



VQGAN+CLIP(Updated).ipynb

Image generation from text

### EXPECTED RESULTS

An original hybrid recipe inspired by a global cuisine and made with local ingredients. The user is able to customize the final result through parameters in spiciness, difficulty, and color.

#### Empanadas kimchi baguette plantains fuet



Instructions 1. Cook the empanadas, and add them inside the plantains. 2. Wait till everything is cooled well. 3. Cut the fast is small pieces. 4.-Poit everything into the hagastle. 5. Enjoy

#### empanadas kimchi**s (** baguette plantains fuet













VQGAN+CLIP neural network
+ ImageNet\_16384 dataset

## REFLECTIONS AND CONSIDERATIONS

- Failure eg. cuttable beer
- Parameters properties
- Extreme weird results

For instance:

- 1 Beer, cut into cubes
- Drain on both sides of the refrigerator.
- YOWL THE COOKIE: ADD 1/2 cup of cheese.
- 1 1/2 tb Water; Cooked and seasoned
- 6 oz Mayonnaise peeled, finely chopped