

# StreamLit

**Goals:** Familiarize yourself with the use of StreamLit, creating simple APIs to visualize tabular data and results.

## Assignment 1: Creating a UI to upload and classify an image

In the [Theory Support Code for the StreamLit class](#), we provided you with two code snippets already completed: the first one (`data\_analysis.py`) to perform interactive data analysis with a CSV file uploaded by the user, and another one (`goal\_tracker.py`) to interact with a CSV file containing the goals record for different football players.

1. Run these files and check the code to familiarize with Streamlit. Try to modify them and include new types of widgets in the UI.
2. Then, you will have to complete the `classify\_image.py` file. This is a UI which should give you the chance to upload an image, then make a prediction using the ResNet50 we provide, and finally show the class predicted for the image. Check the documentation of `st.file\_uploader` and `st.image` to see how to upload and then show an image in your UI.

## Assignment 2: Creating a UI for visualizing food recipes

In the [FastAPI assignment](#), you were asked to create an API to retrieve a single random recipe containing a given ingredient. Here we propose you to create a UI where you can specify the ingredient and how many recipes containing this ingredient you want to retrieve. The UI should also include a button that, once pressed, it will retrieve the recipes and show them in table, including the ingredients in one column and the recipes in the other column.

Remember you can use the dataset available at:

<https://huggingface.co/datasets/somosnlp/RecetasDeLaAbuela>

