



GitHub

2023/4

BIA DASHBOARD PROJECT

**VISUALIZE
YOUR **BIA** -
.CSV REPORTS**



LEGENDA

- PROBLEM TO SOLVE
- WEBAPP STRUCTURE
- QUICK GUIDE

Additional Infos

This personal project is currently available at: <https://bia-dashboard-visualizer.streamlit.app/>

You can find the source code and my contacts on my **GitHub Repository** at: <https://github.com/francescom839/BIA-Dashboard-Visualizer>

Don't forget to download the “**Correctly Formatted Dataset**” in the user guide to try the service yourself!

All my contacts are found here: <https://bia-dashboard-visualizer.streamlit.app/Contacts>

Problem to Solve

I am currently following a nutritionist to get the most out of my weightlifting training.

Every month, I do a **Bioelectrical Impedance Analysis (BIA)** and every time I receive a hard-to-understand **.csv** file with 44 columns.

C	W	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	
City	Phone	Cellphone	PMID	Email	Exercise	Exercise	Age	Weight	Sex	FM	FFM	ECW	ICW	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM

AE	AF	AG
M%	BMR	BMI
39,5	1.620	33
44,1	1.701,20	32,1

After searching online for a tool that would allow me to visually see my data, I was unable to find an **easy-to-use** option. That's why I took it upon myself to create a web app that could help me visualize my data.

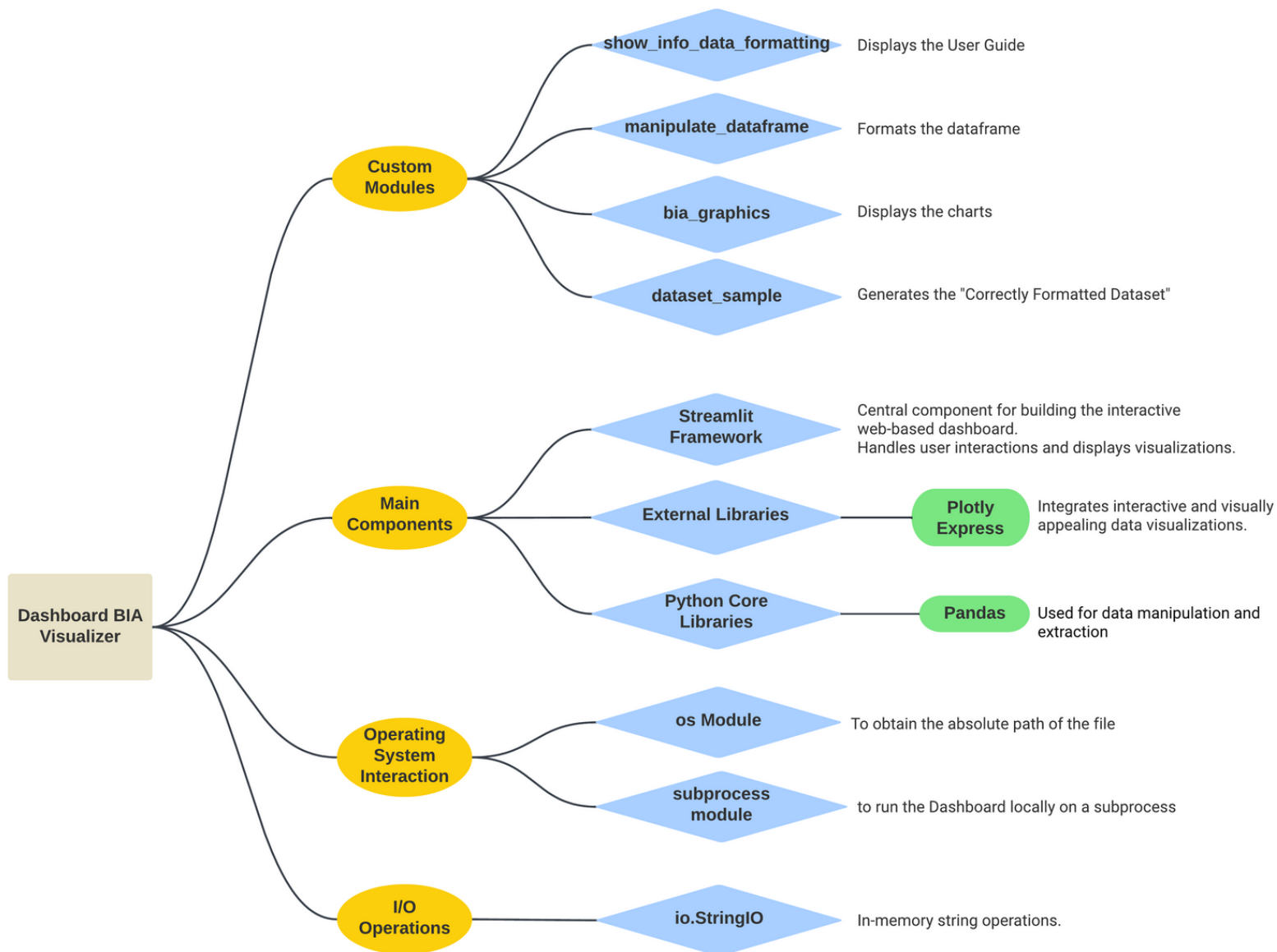
BIA Dashboard Visualizer is designed to easily display a person's overall progress with their body and can be used by anyone.

The web app allows you to visually see:

1. **Weight** progress (**bar chart/line chart**)
2. **Fat Mass (FM)** and **Fat-Free Mass (FFM)** ratio (**pie chart**)
3. **Intra-Cellular-Weight (ICW)** and **Extra-Cellular-Weight (ECW)** ratio (**line chart**)
4. **Body Metabolism Rate (BMR)** and its last change (**gauge**)

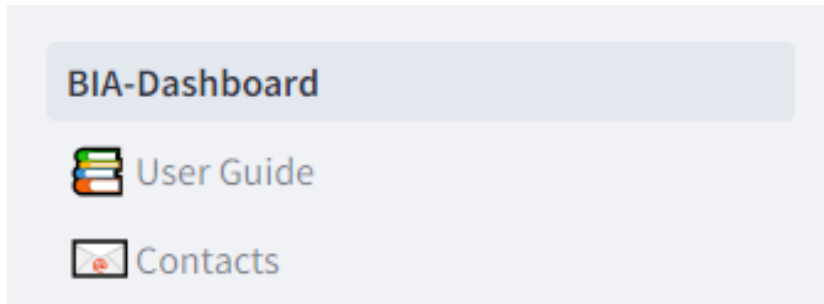
Users can download a **“Correctly Formatted Dataset”** to see how their data needs to be formatted and allow them to easily approach the app.

WebApp Structure

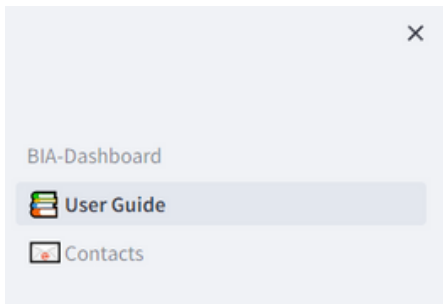


Quick Guide

Navigate through pages




**Check the
format guide**



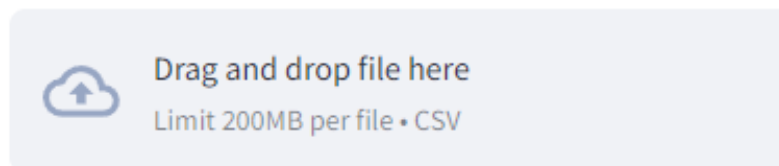
How to format your Data


 Download: Correctly formatted Dataset

 *Your table headers need to be written the same way as shown in this example*



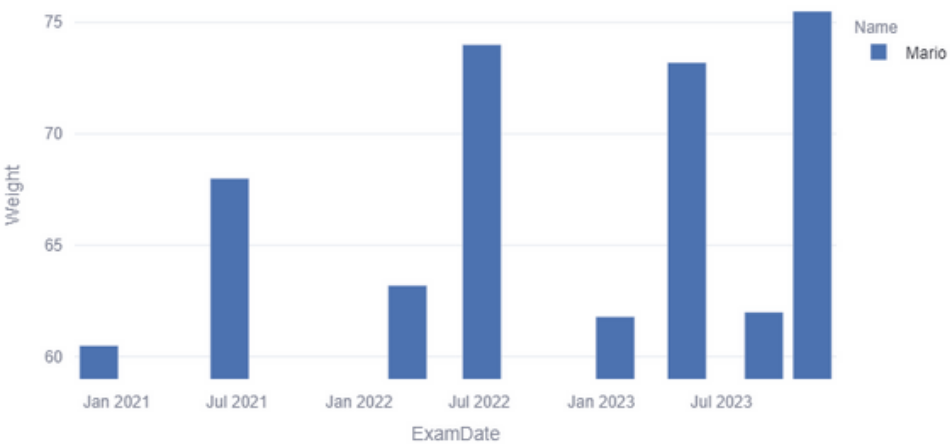
Upload your .CSV file



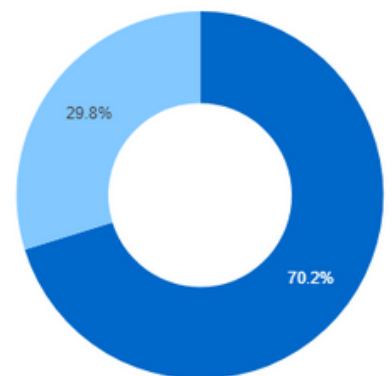
 To see the Dashboard, you need to upload a file

Visualize your Dashboard!

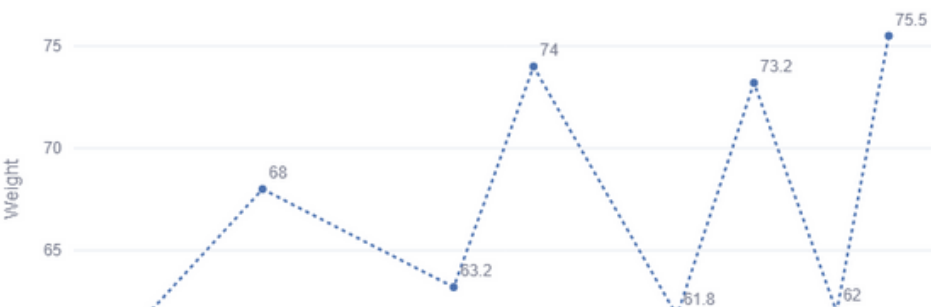
Bar chart Weight - Exam Date



Fat Mass % and Fat Free Mass % ratio (Most Recent)



Body weight per Examdate Dynamics



Intra-Cellular-Weight (ICW) and Extra-Cellular-Weight (ECW) Over Time

