Data Visualization project - UE03

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1 Introduction

This project will showcase some of the way to visualize a dataset with several type of chart, in order to show the user hidden information that hide under the dataset with more vibrant images.

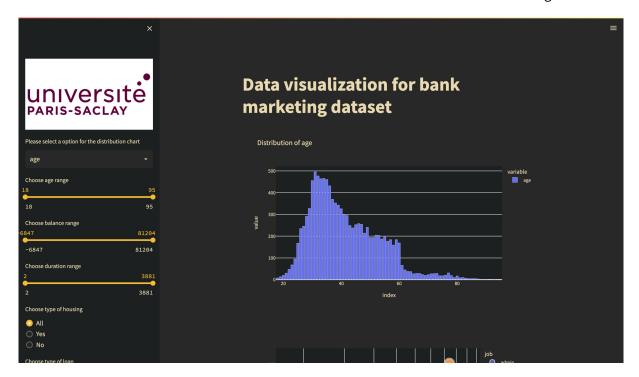


Figure 1: Project beginning screenshot

2 State of the art

This project was written using Python. Here are the important libraries that I use to make it possible.

Streamlit

Streamlit is an open-source app framework that turns charts and graphs from multiple libraries into a sharable web app. Streamlit support multiple type of graph, but in this project particularly, I will use Plotly to plot all the graphs that required.

- Plotly
- Pandas

3 Information about the dataset in the project

dd

4 Project structure

4.1 Controller sidebar



Figure 2: Sidebar

4.2 Graphs

d

4.2.1 Distribution chart

- The age range of the dataset with the highest number of people is bettween 30 and 37 years old
- Management, blue collar and technicien is the most job of the dataset

4.2.2 Bubble chart

- Most people have under 15k in their balance.
- Student in the bottom left.
- Retire in the bottom right
- Management usually in higher balance

4.2.3 Term deposit by job

• The higher the duration, the more yes over no in term deposit -> duration marks a significant importance in these feature

4.2.4 Term deposit by education

• The younger the age, the more yes over no in term deposit.

4.2.5 Purpose of low amount of balance