## Project Proposal by Hardiles THERMORIS

Profile of people in urgent need of humanitarian aid in Haiti (2019 - 2020)

A machine Learning Approach

September 2021

Project Description:

The Haitian population is facing a multitude of difficulties including natural shocks as well as socio-political crises juxtaposed with conditions of chronic vulnerabilities of the population.

In 2020, 4.6 million people will need humanitarian assistance according to the humanitarian response. This number is up from 2.6 million in 2019.

Faced with these numbers, it is important that state authorities act with precision in terms of the support they provide to these people. To help them, we will analyze the different profiles of people in need of humanitarian aid.

To do so, we will use the data found on this link https://data.humdata.org/dataset/haiti-cible-hrp-2019-2020. This data set is produced by the United Nations for the Coordination of Humanitarian Affairs (OCHA) in collaboration with humanitarian partners in Haiti. It contains estimates of people aggregated by geographic location, gender and age who have been targeted for urgent humanitarian response in Haiti.

What is the selected issue or question that your project will address?

The project will show children, adults and elderly in disadvantaged situations needing humanitarian relief in terms of health and social needs such as shelter, food security, nutrition, protection, education and health.

Knowing the importance of health and education, I could not have the luxury of remaining insensitive, seeing the children malnourished, the problem of shelter and their lack of access to education, the adults unprotected by health, food insecurity, ...

All these situations would incite me to use my highest degree of empathy and it is for this reason that I have chosen to analyze the profile of the people urgently needing humanitarian aid in Haiti and give the State, the NGOs, the volunteers of the national territory and the diaspora, the opportunity to better target and reach the people really in need.

Who is the audience?

The target audience is:

* Ministry of Public Health and Population, for nutrition and health needs
* Ministry of Social Affairs and Labor, for protection and shelter
* Ministry of National Education and Vocational Training, for children's education needs
* NGOs
* National and diaspora volunteers

What is the source of data you have in mind?

Download the data found at this link https://data.humdata.org/dataset/haiti-cible-hrp-2019-2020. This dataset is produced by the United Nations for the Coordination of Humanitarian Affairs (OCHA) in collaboration with humanitarian partners in Haiti.

What are the goals of your analysis?

The analysis will be based on the core data set to understand the vulnerable people or groups of people and the specific types of vulnerabilities.

The analysis will cover the entire country based on the quality and quantity of sectorial data available at the commercial and/or departmental level.

* For effective intervention in aid distribution:
* Identify the urgent needs of people by department
* Identify needs by gender
* Identify needs by age
* Identify the most affected departments for each sector