Business Analysis

AYITI ANALYTICS - Cohort 2021 - Python Project 1

THE BUSINESS PROBLEM

The business problem

Description

Ayiti Analytics Data has the goal to lead the next generations to scientific method and the use of data to solve real problems. The task is not easy and it wants to expand its training centers throughout all the communes of the country. Its objective is to know which three communes of the country will be the most likely to expand its training centers

The business problem

The stakeholders

- Ayiti Analytics Board
- The applicants (that will be choosed)
- The (assistant) teachers

The business problem

Why the problem is important?

One of the goals of Ayiti Analytics is to allow participants to immerse themselves in a series of notions that will show them how to use technology so that they can manipulate data in a practical way. The requirements for admission to the program are merit-based, which means you must be among the best applicants.

In order to give this possibility to a maximum of youth that have the prerequisite, , it's important to see where it's the best place to realise the next bootcamp program.

THE METHODOLOGY

The Methodology

AVAILABLE DATA

- Profile of applicants for this cohort

- Industries (where they want to make a career)

- Technologies known

- Study Domains

The Methodology

Origin of the majority of the applications

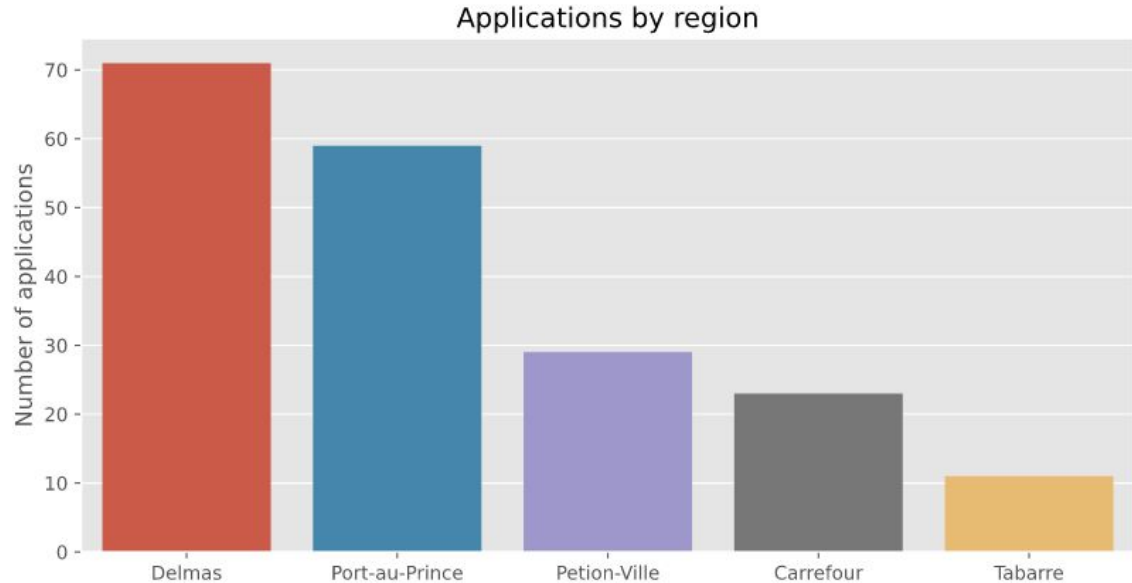We have considered the regions where there are the most applications from

All other type of analysis that doesn't depend on the selected region, such as the best communication channels, the technologies known, the study domain, … are done on the whole dataset.
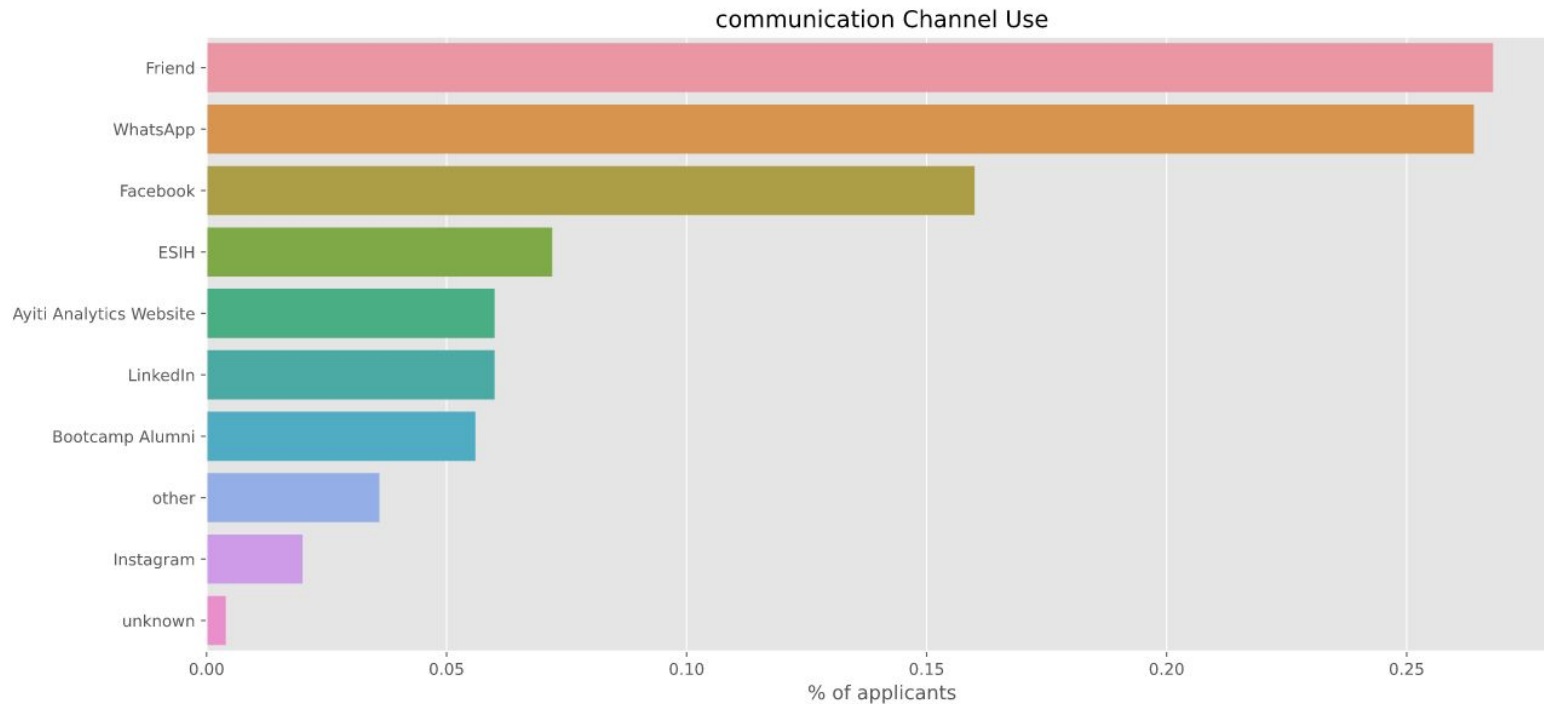
RESULTS

Results

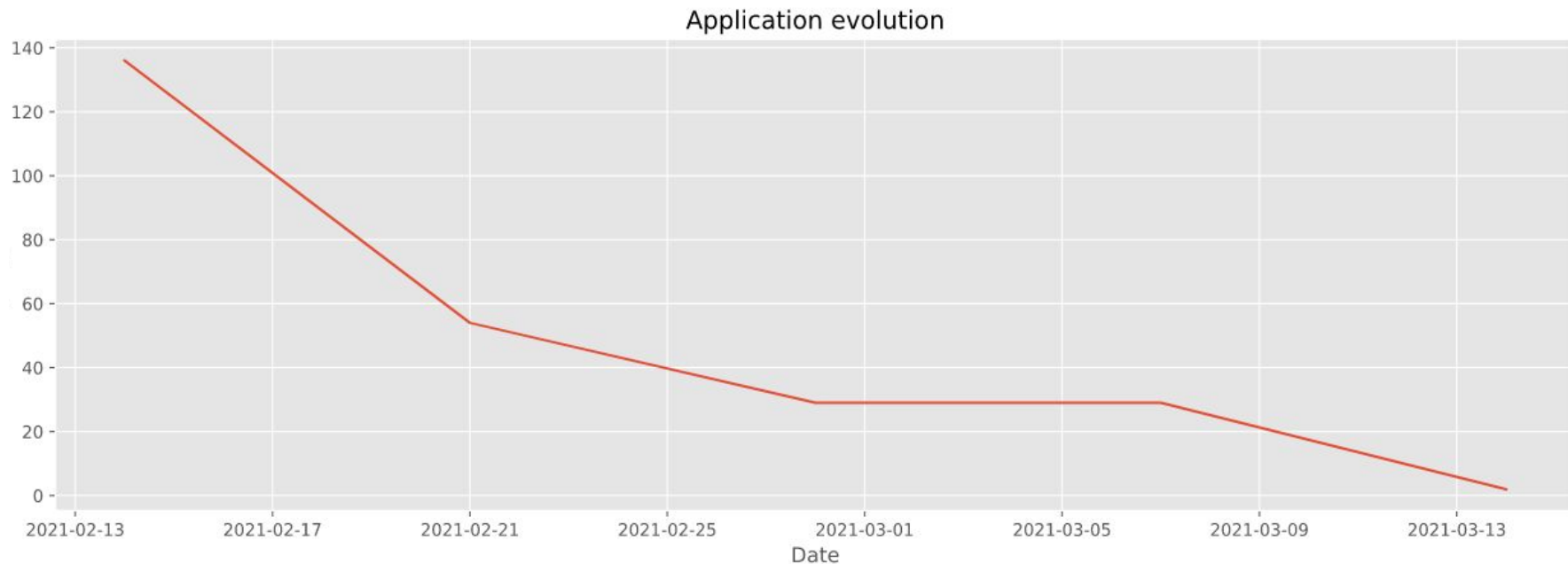Delmas is the most representative group among the applicants

Results

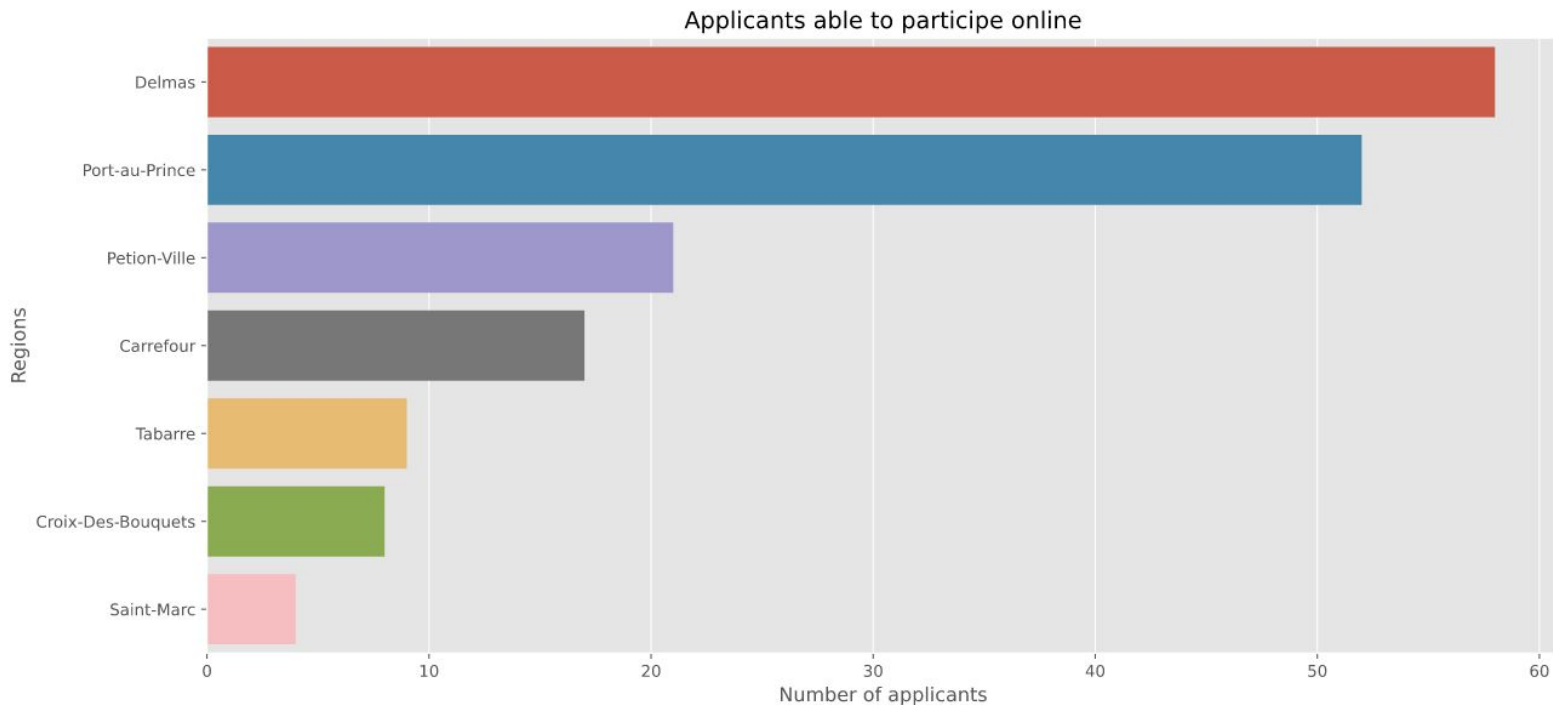Most of the participants were aware of the program by a friend or whatsapp

Results

Important:
The last week, the number of applications is almost zero.

Application evolution

Results

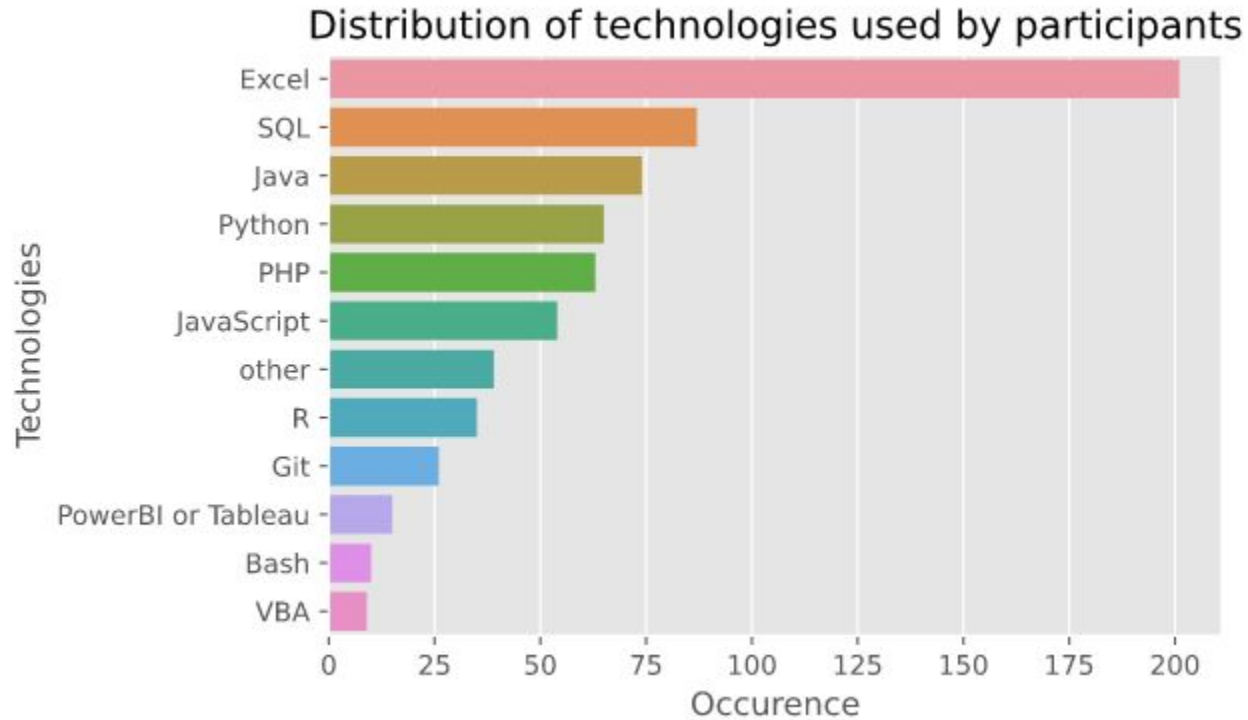The distribution of the regions with the capability of participants to follow the bootcamp online.

Applicants able to participe online

Results

➢ The proportion of women in Delmas is <u>16.9 %</u>

➢ The proportion of women in Port-au-Prince is 32.2 %

➢ The proportion of women in Petion-Ville is <u>13.79 %</u>
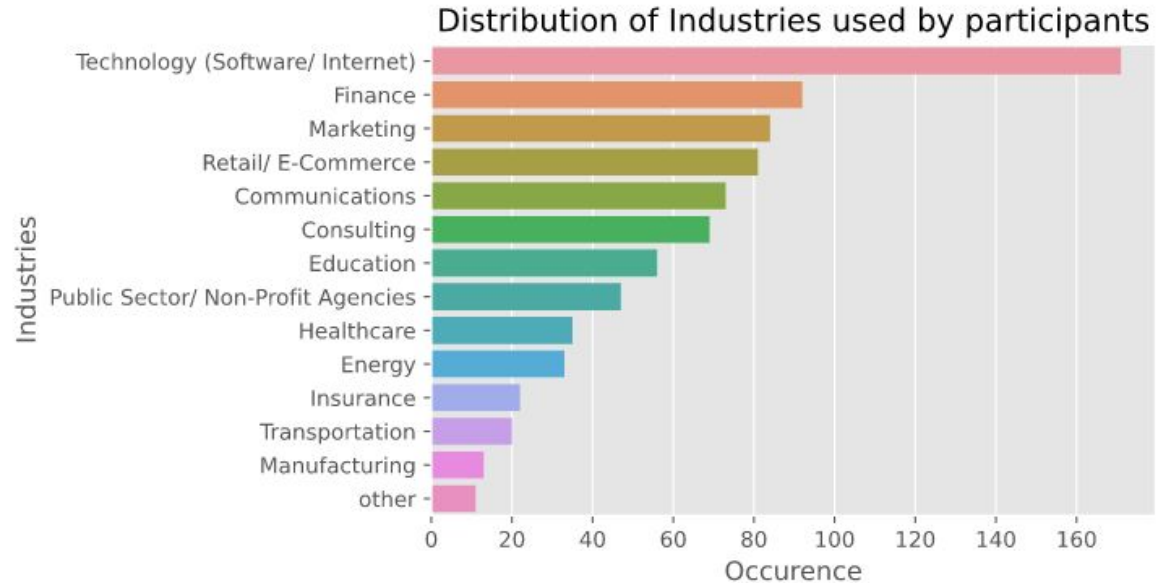
Results

The most known technologies are not Python

Distribution of technologies used by participants

Results

Most participants are interested in software and internet programming

Distribution of Industries used by participants

Results

hear_AA_1	Bootcamp Alumni	ESIH	Facebook	Friend	WhatsApp
gender					
female	8.0	5.0	6.0	11.0	9.0
male	6.0	13.0	34.0	56.0	57.0

The p-value is 0.0029

Khi-square test between gender and the way the participants have been informed about Ayiti Analytics

We reject the null hypothesis that assume these 2 variables are independants

DISCUSSION AND SOLUTION

Discussion and Solution

➢ About formation, teachers work improvement and performance

Python, the main programming language in the bootcamp is the 4th technology known by the participants.

To improve the quality of selection, at the same time the levels and knowledges of the selected participants, the python course (basics on the AA platform) has to be a prerequisite, including an algorithm course to prepare their mind to think as a programmer.

Discussion and Solution

➤ **About online bootcamp**

The regions with the greatest number of applications are the same where the applicants can participate at a bootcamp organized online. They have access to internet at home and the have a computer.

➤ **About variety**

We can see "Other" category is the 3th study domain declared by the applicants. This is one of the goal of AA: embrace all domains

Recommandations

➢ **About 25% of women on average**
In order to have 25% of women selected on average, the number of submission necessary for:
- Petion-Ville: 58
- Delmas : 47
- Port-au-Prince : 32

➢ **About to increase women participation**
According to the results of our khi-square test, it will be more benefit to prioritise the Alumni as communication channels

➢ **About to increase the applications**
We have to invest in the network (Alumni) and Facebook
Increase the weeks for applications is a waste of time

Limits

➢ About selected candidates
- If we have the characteristics of the selected candidates, we can make analysis with more precision and make recommendations if necessary on the criterias of selection.

REFERENCES AND APPENDICES

To do this work I have consulted:
- Ayiti Analytics Website
- Business Analysis Courses
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Thank You!

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