



Presented by Jimmy Cassarino



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THE CONTEXT

CORRELATIONS AND HOSPITAL MANAGEMENT

You may have noticed hospital management is a HOT topic nowadays.

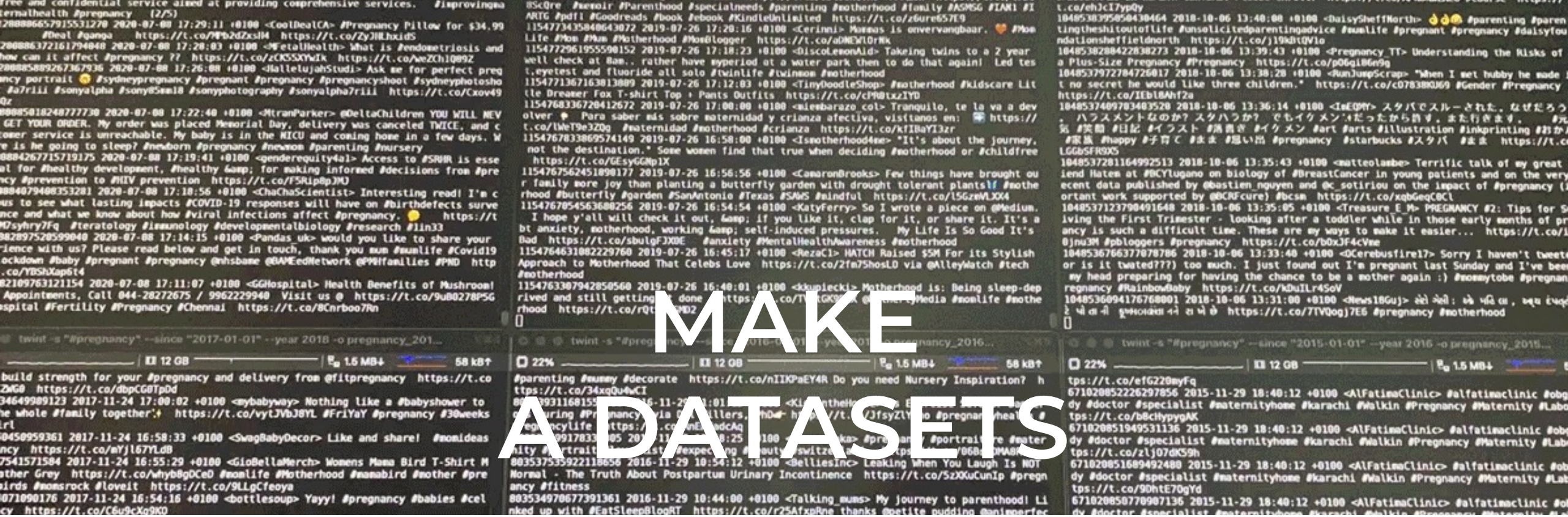
To handle more efficiently their material needs and their human resources, a large association of hospitals aims at predicting maternity occupation rates and put in place an alerting system to help decision-making.

Many factors could influence pregnancy and natality, from weather conditions to football results, through travel agencies activity. There are so many variables that could be taken into consideration, that the association decided to limit them to twitter hashtags at first.

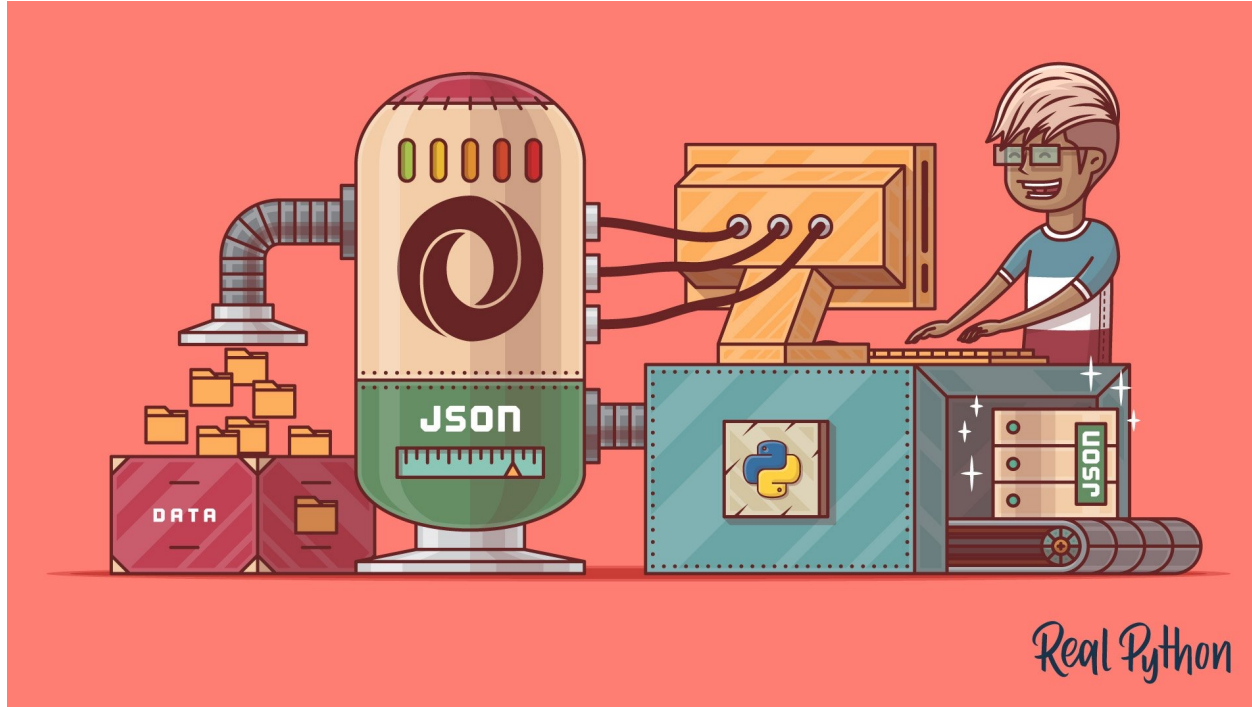


DATASET

A data set (or dataset) is a collection of data. In the case of tabular data, a data set corresponds to one or more database tables, where every column of a table represents a particular variable, and each row corresponds to a given record of the data set in question.



To make my datasets from the Twitter feed I had to use a scraper.
But what is a scraper?

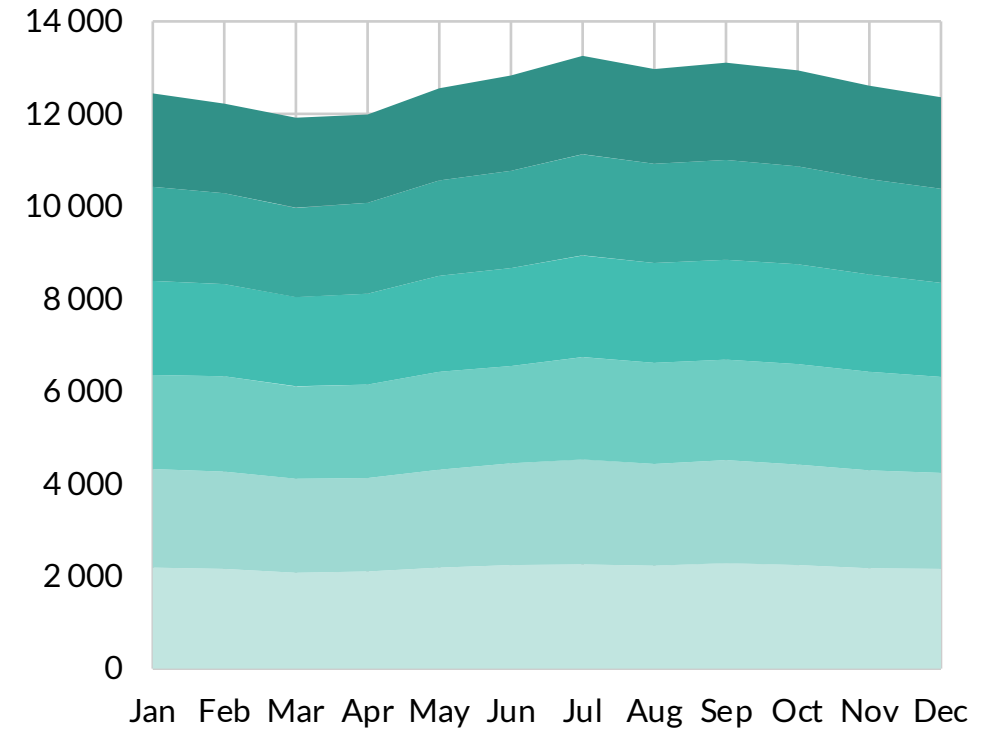


SCRAPER

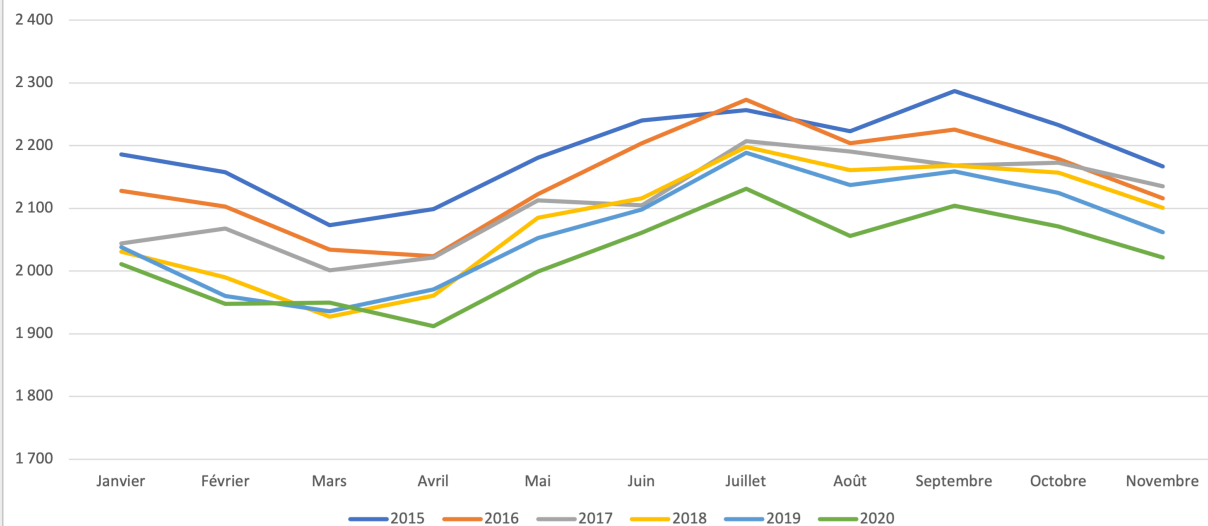
Web scraping, web harvesting, or web data extraction is data scraping used for extracting data from websites. The web scraping software may directly access the World Wide Web using the Hypertext Transfer Protocol or a web browser.

DATA VISUALIZATION

Data visualization is the graphical representation of information and data. By using visual elements like charts, graphs, and maps, data visualization tools provide an accessible way to see and understand trends, outliers, and patterns in data.

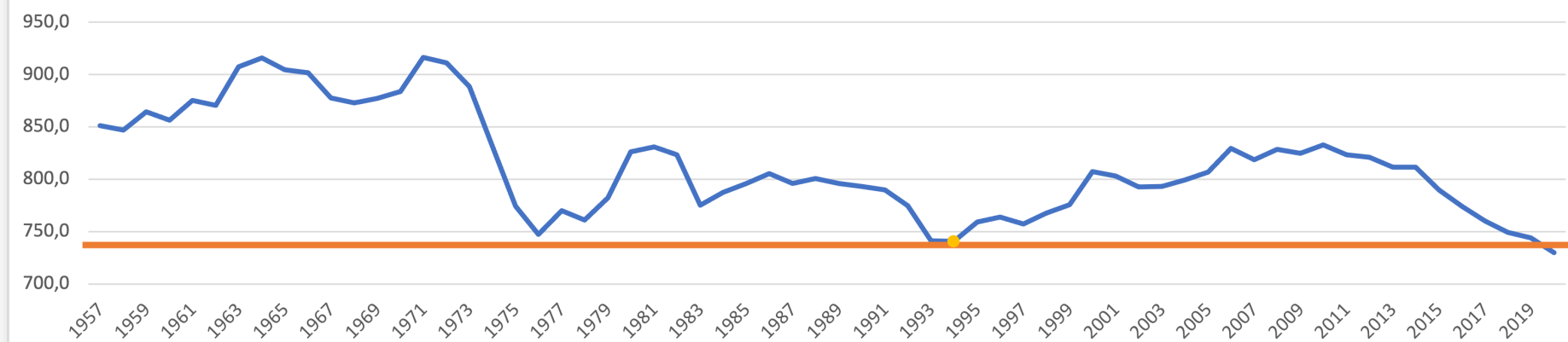


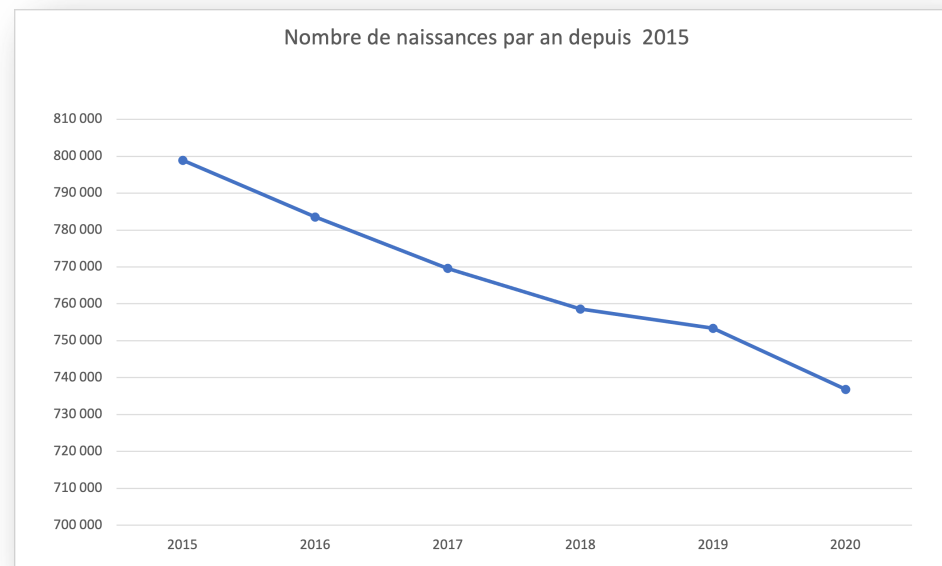
Nombre de naissances par jour en fonction du mois



EVOLUTION OF NUMBER OF BIRTHS

Nombre de naissances par an depuis 1957



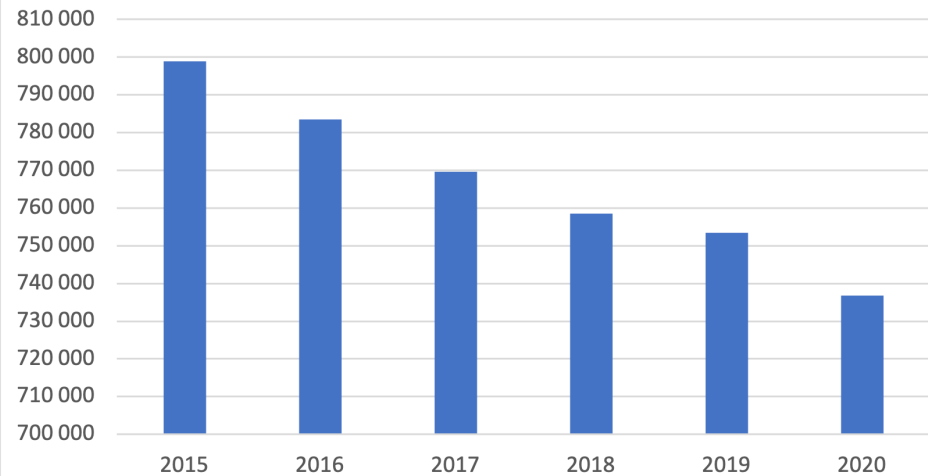


EVOLUTION OF NUMBER OF BIRTHS

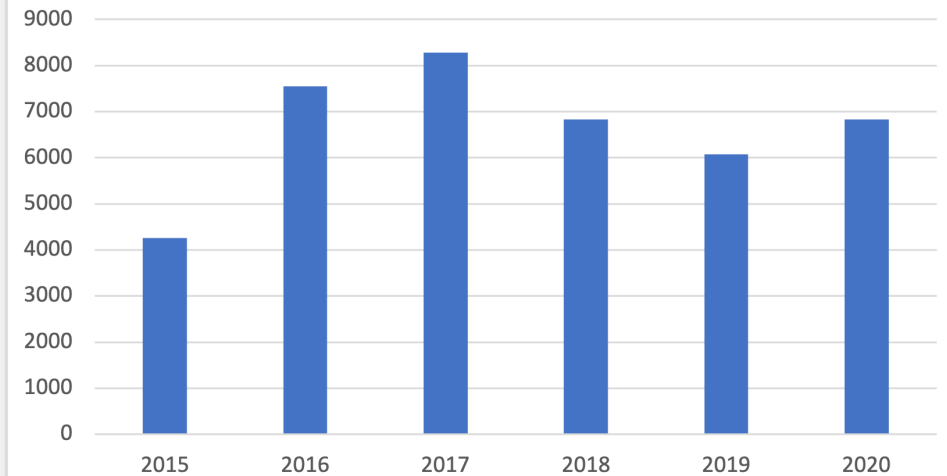
	Depuis 1957	Depuis 2015	De 2014 à 2015	De 2015 à 2016	De 2016 à 2017	De 2017 à 2018	De 2018 à 2019	De 2019 à 2020
Taux de Diminution des naissances	-14%	-8%	-2%	-1%	-1%	-2%	-2%	-3%

REALITY VS. TWITTER

Nombre de naissance par an depuis 2015



Nombre de #naissance par an depuis 2015



SOURCES

Here are all the sources that helped me in my research to establish my case study

Bilan démographique 2020

https://www.insee.fr/fr/statistiques/5012724#figure2_radio2

Naissances et taux de natalité

<https://www.insee.fr/fr/statistiques/2381380#tableau-figure1>

Décalage du pic de naissance

<https://www.insee.fr/fr/statistiques/4655279#graphique-figure1>

Infos juillet 2019

<https://www.lefigaro.fr/actualite-france/les-infos-qu-il-faut-retenir-du-mois-de-juillet-20190802>

Bilan démographique 2016

<https://www.insee.fr/fr/statistiques/2554860>



THANKS FOR
YOUR ATTENTION