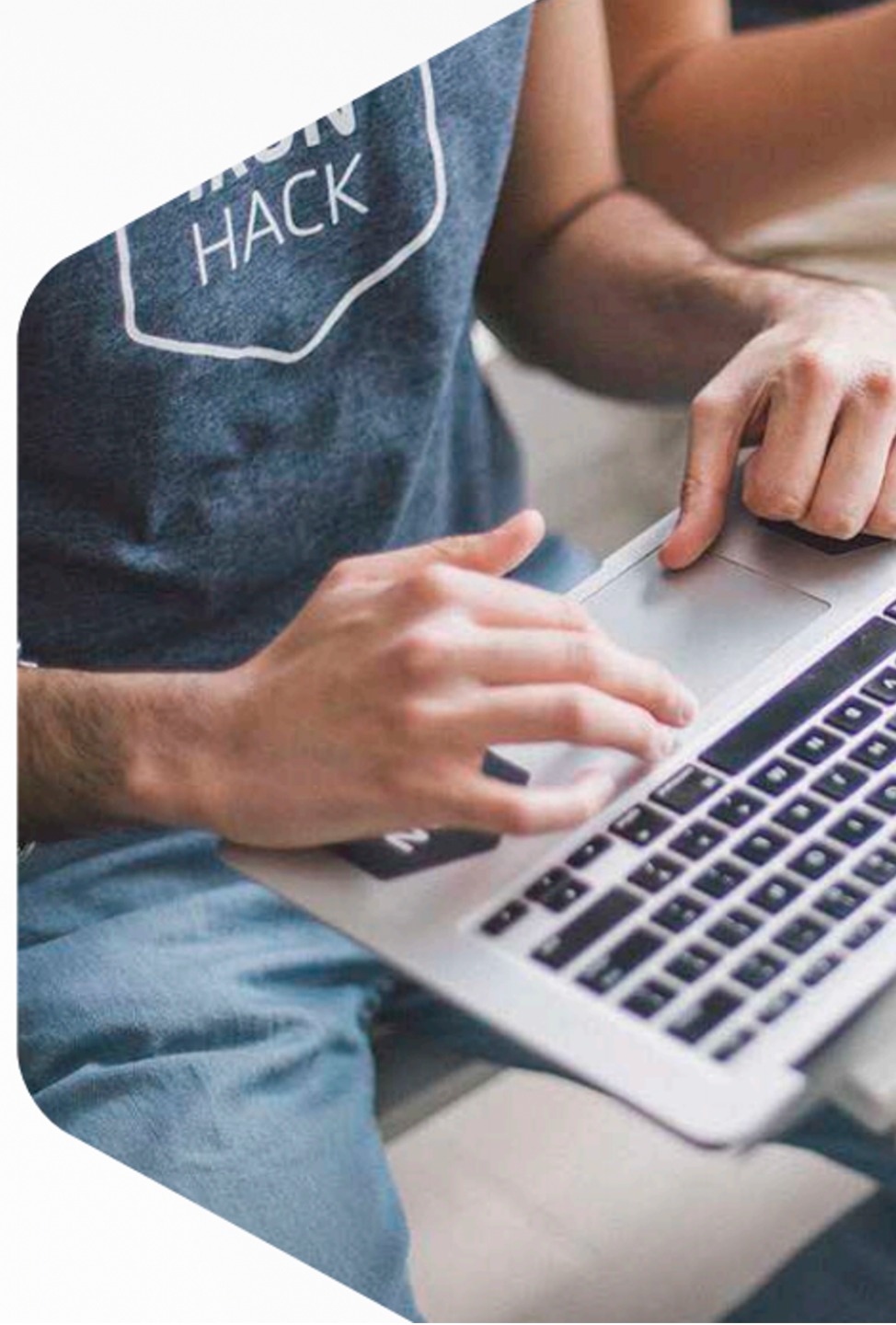


FINAL PROJECT – PT Data Analytics

Madrid 0419

April 2020



Summary

Objective of the project

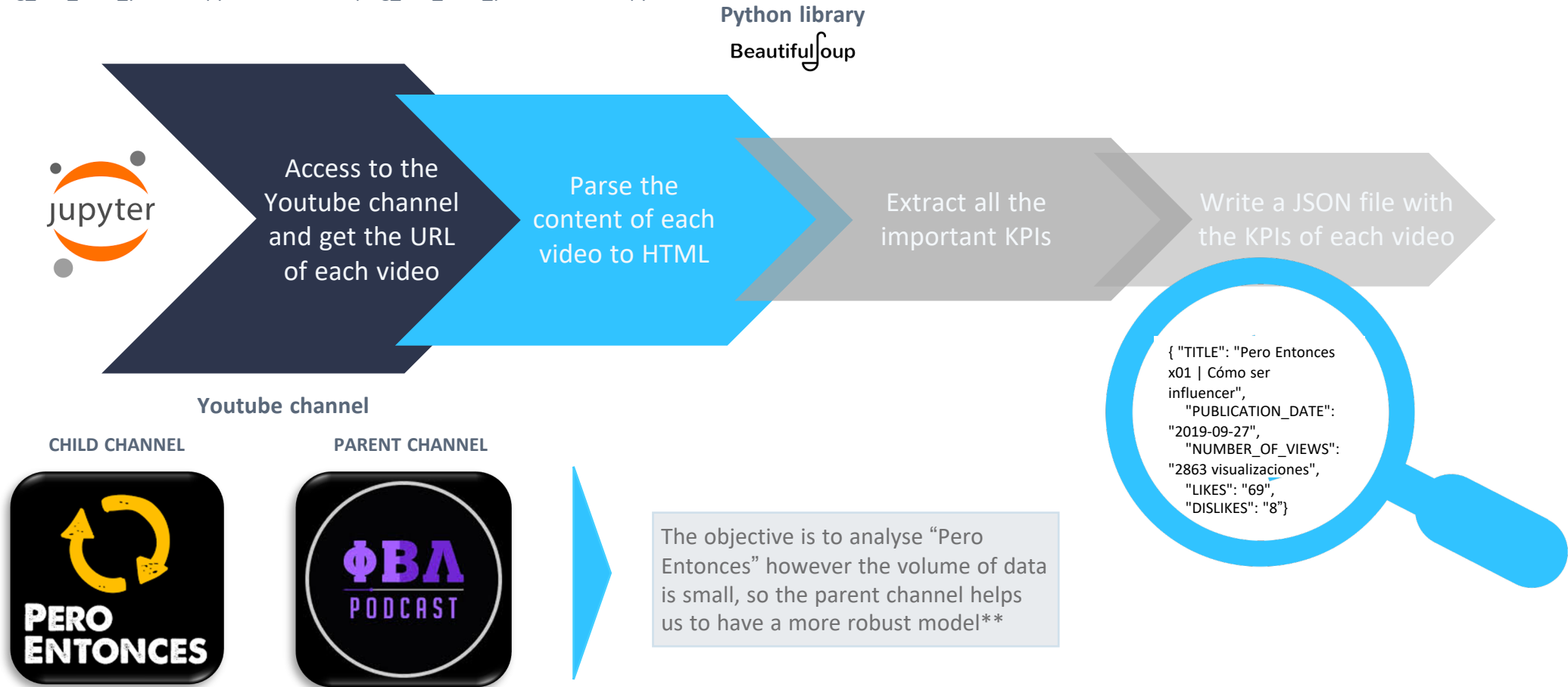
- Find the best title for a Podcast to increase views and likes in Youtube

Skills, tools and technologies used

- Python & Jupyter Notebook.
- Statistical analysis.
- Data visualization -- via Plotly.
- Google: API & Google Sheets.
- Deep Neural Network.
- Word Embedding.
- JSON and csv output files.
- Web scraping -- Youtube.
- Stackoverflow.

The first step is scraping from Youtube the main KPIs* for each podcast of both the child and the parent channels

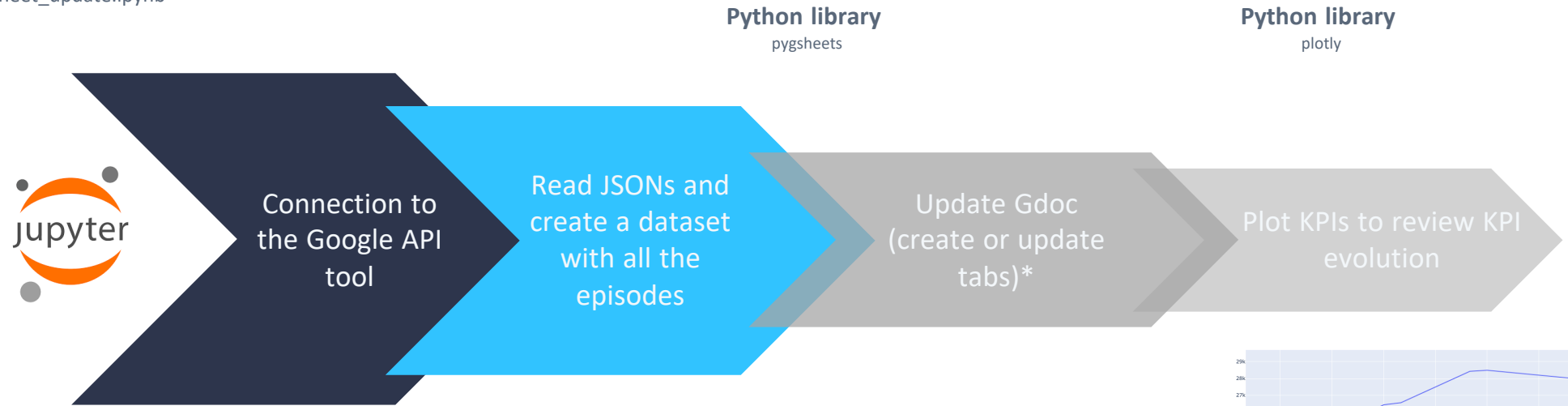
Scraping_info_from_youtube.ipynb && Scraping_info_from_youtube-others.ipynb



*KPIs: likes, dislikes, date of publication, views; **As we will see in the last slide, the volume of data makes the model more robust, but it still needs more words to make a more accurate assessment

Then, after establishing the connection with the Google API, a summary is written in a GSheet so that the author can monitor each episode evolution

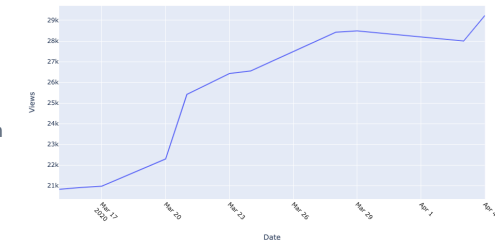
Gsheet_update.ipynb



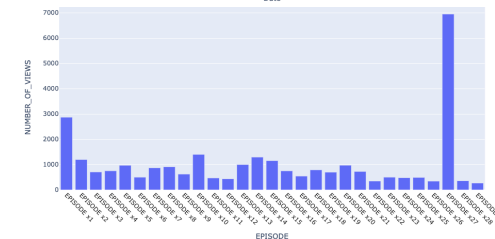
Google APIs



Daily views evolution



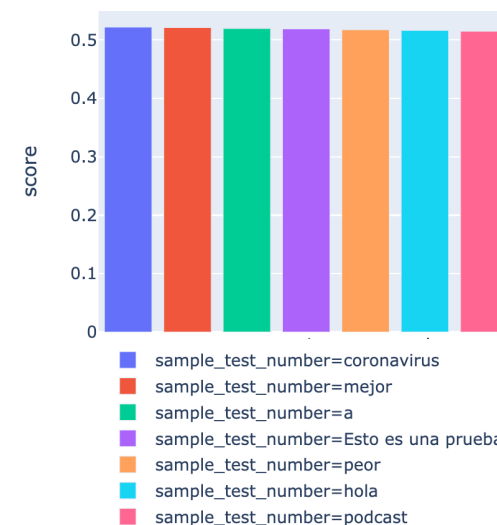
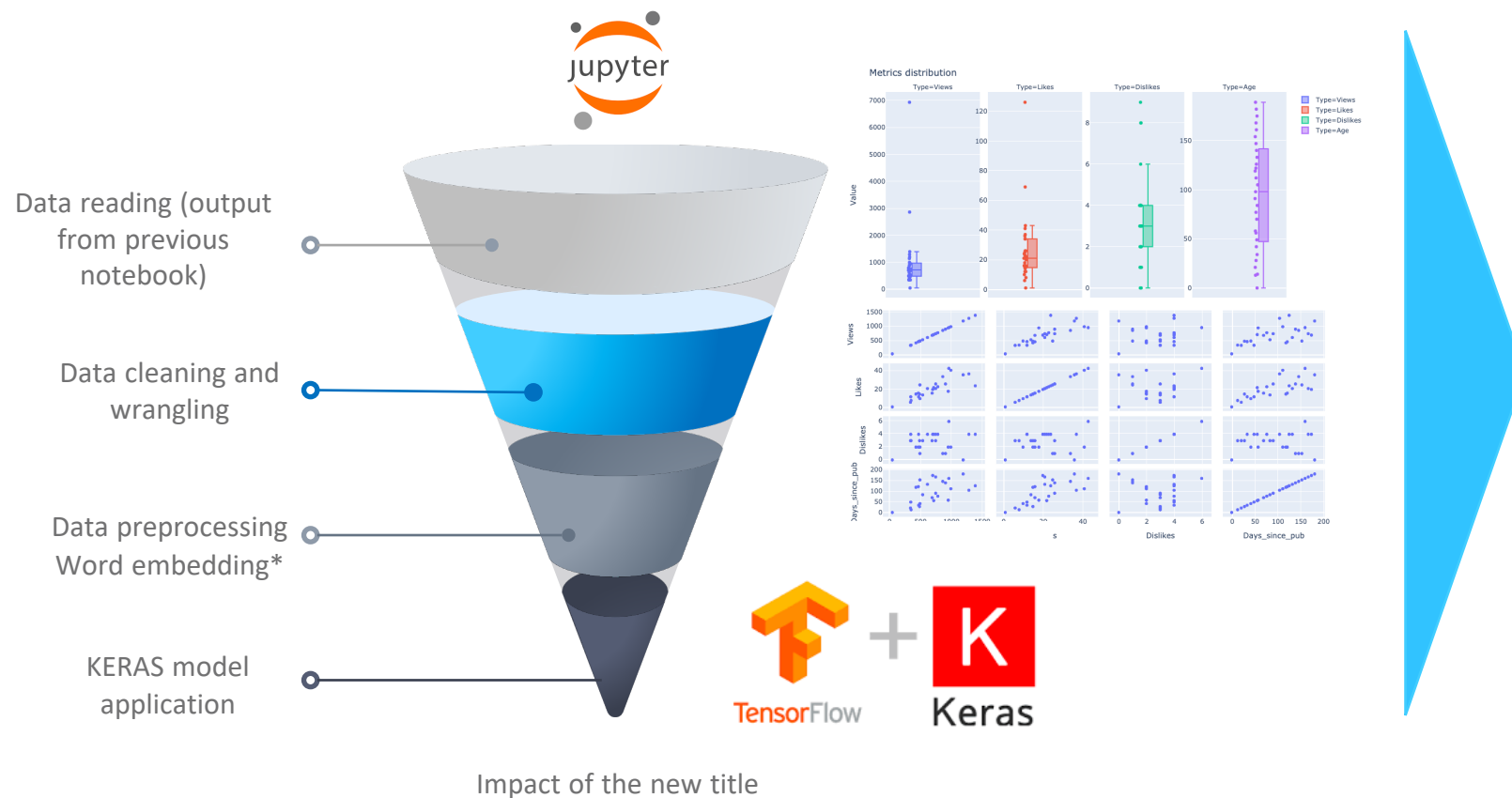
Last day situation



*This modification of the Gsheets is automatically done from the Jupyter Notebook; Also that Gsheets also serves as a database of all the data that is read and written everyday

Finally, a Deep learning model helps us to analyse each title to understand which words drive the author to have more views or likes

Likes_Views_Estimator.ipynb



*The word embedding is included in the KERAS libraries and transform the text into numerical vectors to feed the model

Next steps....

WHAT'S
NEXT?



The dictionary of words is still small we would need a much greater different range of words

- Construct a more robust model with a much wider dictionary of words
- Estimate the likes/views over time

Thank you for your time

April 2020

