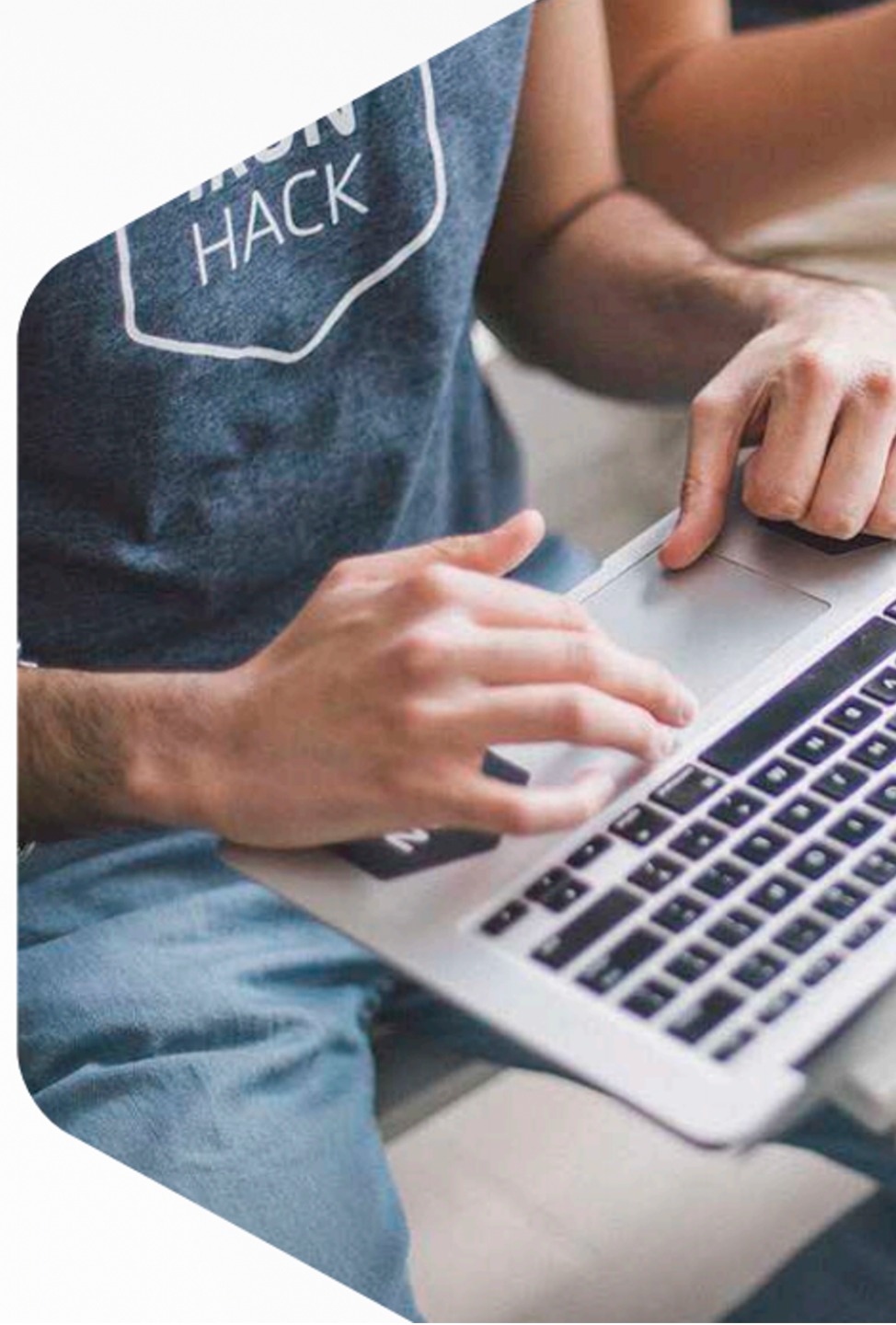


FINAL PROJECT – PT Data Analytics

Madrid 0419

April 2020



Summary

Objective of the project

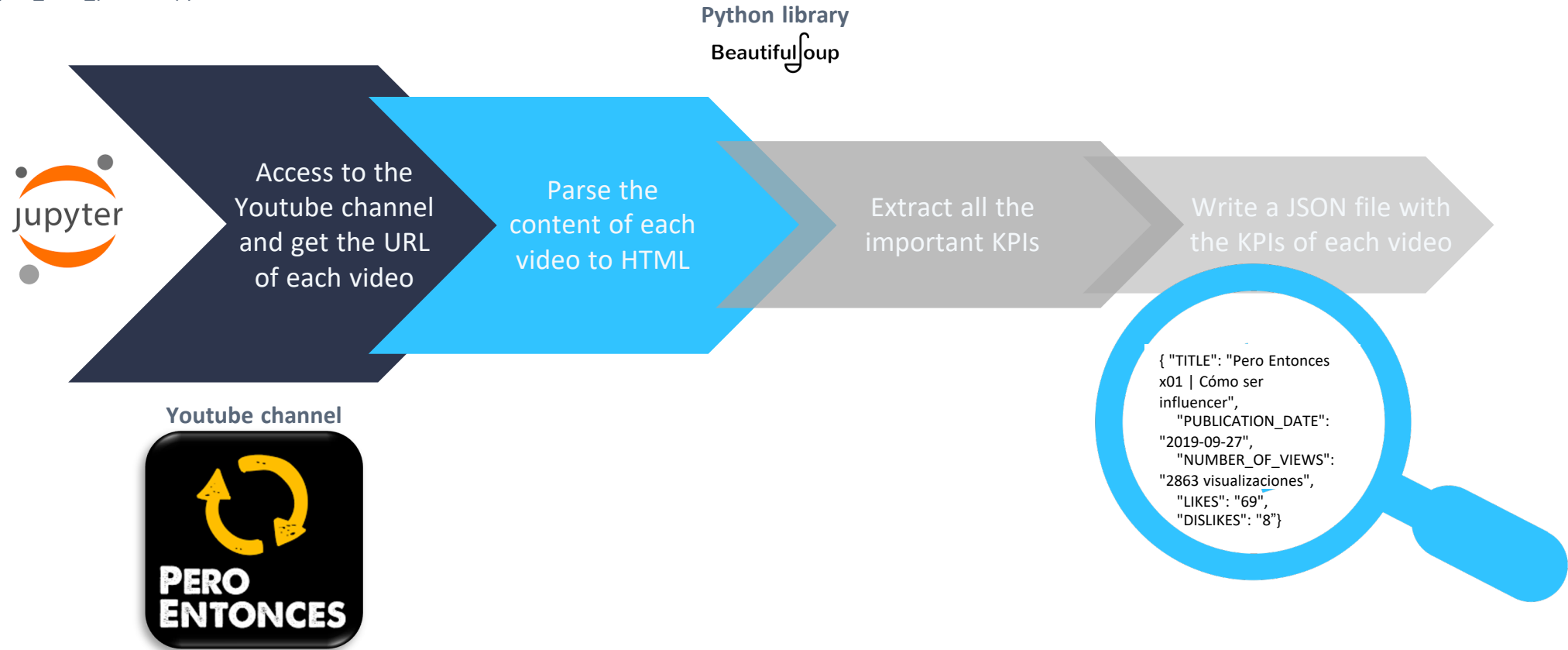
- Find the best title for a Podcast to increase views and likes in Youtube

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.

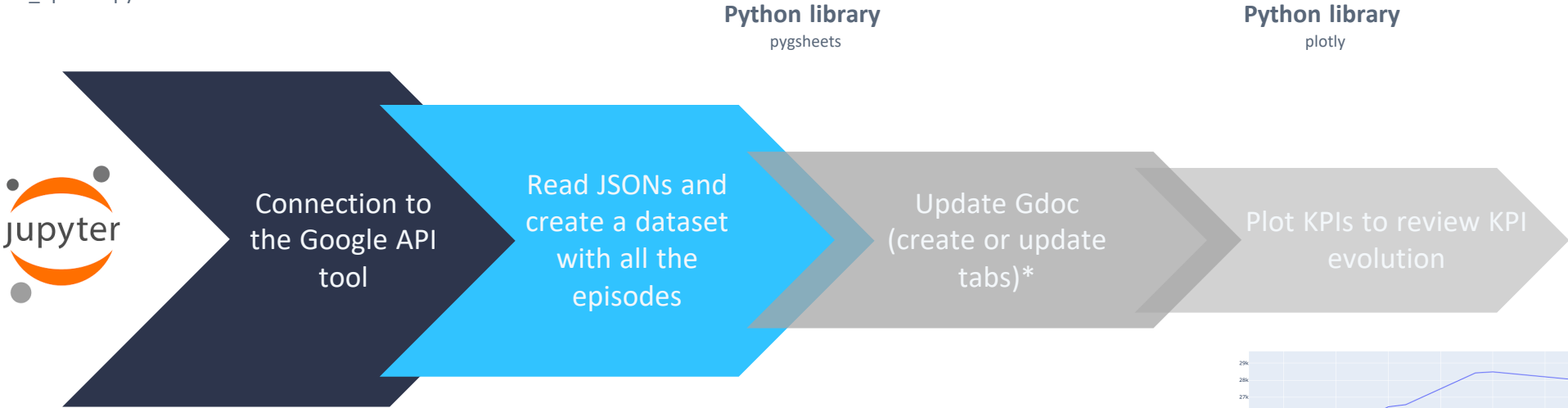
The first step is scraping from Youtube the main KPIs for each podcast, such as likes, unlikes, views or days since publication

Scraping_info_from_youtube.ipynb



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

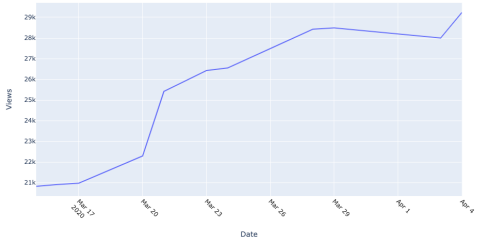
Gsheet_update.ipynb



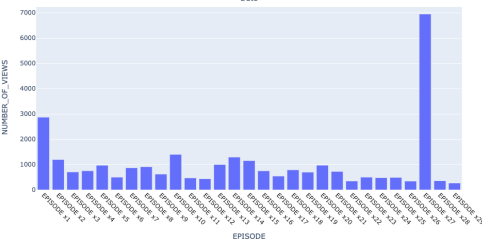
Google APIs



Daily views evolution



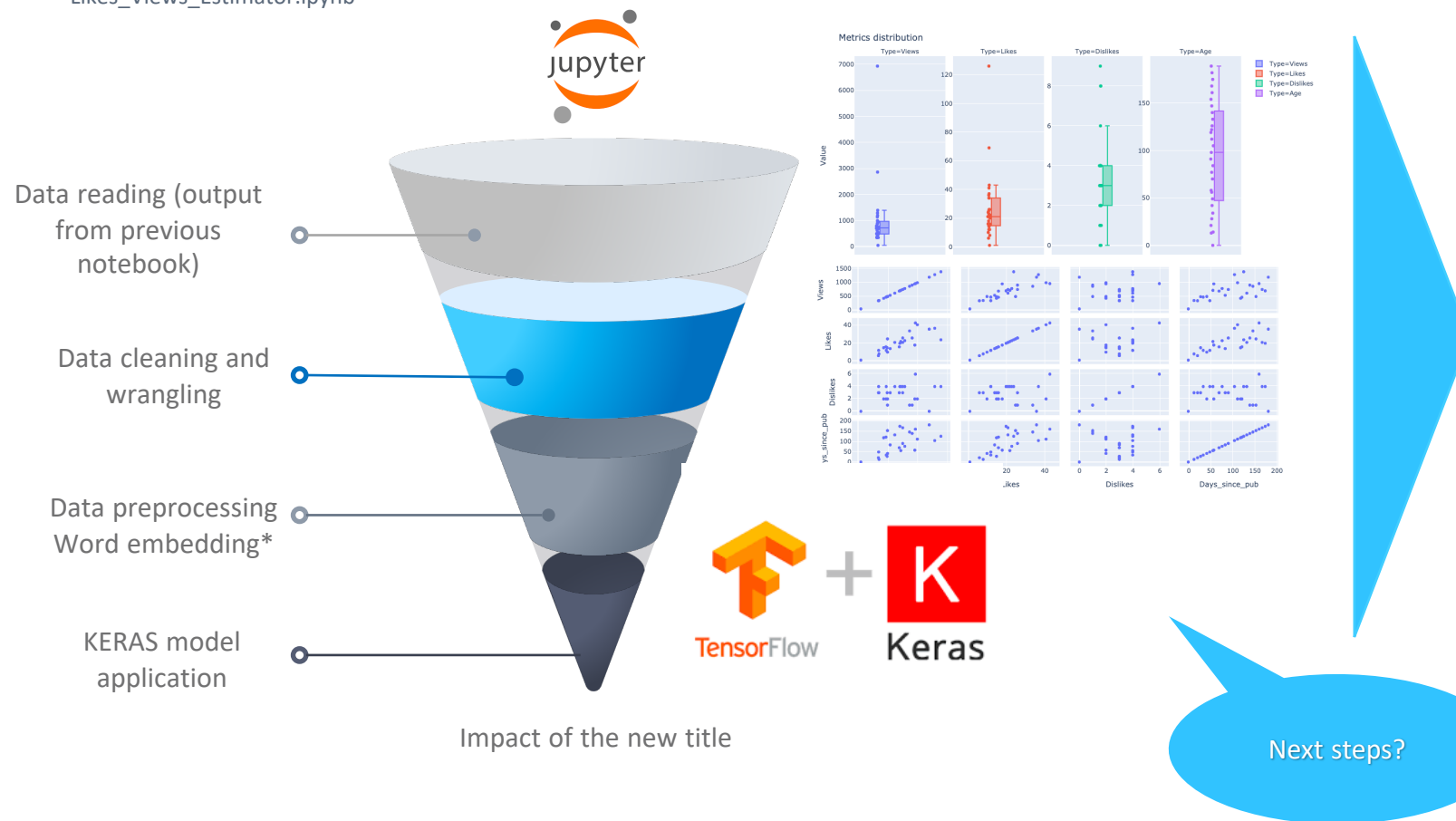
Last day situation



*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 autor to have more views or likes

Likes_Views_Estimator.ipynb



- Include other podcasts to have a more robust model
- Estimate the likes/views over time

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

Thank you for your time

April 2020

