Proyecto team 1: Generación de Resúmenes de Noticias

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Introduction

Hemos usado News API para tomar noticias de diferentes fuentes y la API de Facebook BART para generar resúmenes de esas noticias.

API Integration I

Usamos News API para conseguir todas las noticias, en este caso sobre Apple.

```
pip install requests flask openai
from dotenv import load dotenv
import os
import requests
load dotenv('.env')
bart api key = os.getenv('bart api key')
# Configuración de las credenciales de la API de NewsAPI
news_api_key = os.getenv('news_api_key')
def get news articles(query, api key=news api key):
  url = f"https://newsapi.org/v2/everything?q={query}&apiKey={api_key}"
  response = requests.get(url)
  articles = response.json().get('articles', [])
  return [article['content'] for article in articles if article['content']
articulo = get news articles(apple)
```

API Integration I

Results

```
articulo
Out[7]: ['[Removed]',
               "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency & Consent Framewor
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]",
              '[Removed]'.
              "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency & Consent Framewor
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]",
               'Apple doesnt understand why you use technology\r\nApple doesnt understand why you use technology\r\n / What, exactly, did
             Apple crush?\r\nByElizabeth Lopatto, a reporter who writes about tech, money, and h... [+4139 chars]',
              "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency & Consent Framewor
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]",
              'its no secret that Apple has mastered the art of smoke and mirrors. When the company debuted the new iPad Pro, the flashy
             livestreamed keynoteand the hands-on event for media afterwardmade it seem as... [+2831 chars]',
              "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency & Consent Framewor
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]".
               '[Removed]'.
              'Apple's latest high-end tablet is a marvel of hardware design still in need of the software and accessories to really make
             it sing. But wow is it fun to use. The new iPad Pro is a genuine achievement... [+11228 chars]',
             "If you click 'Accept all', we and our partners, including 237 who are part of the IAB Transparency &amp: Consent Framewor
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]",
              '[Removed]',
               'Apples apps and services usually work brilliantly well on Apple devices, but what about when youre on a computer that isnt
             running macOS? While using Apples apps on Windows isnt ideal, its significan... [+4630 chars]',
              'Tech giant Apple is poised to see its first-ever strike on its retail operations after staff at a store in Maryland voted
             to authorize a strike against the company. \r\nMembers of the International Ass... [+1373 chars]',
              'Every now and then a corporation is at least a bit funny when going about their late-stage capitalism. For instance, Samsu
             ng has released an absolutely perfect diss-ad response to Apples recent crush... [+2251 chars]',
               'Apple plans to use M2 Ultra chips in the cloud for AI\r\nApple plans to use M2 Ultra chips in the cloud for AI\r\n / The c
             ompany reportedly plans to divert complex AI queries to servers and keep simple t... [+1731 chars]',
              '[Removed]',
              "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency &amp: Consent Framewor
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]",
              '[Removed]'.
              "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency & Damp; Consent Framewor
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]".
              "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency & Consent Framewor
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]".
              "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency & Department & 
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]",
              "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency &amp: Consent Framewor
            k, will also store and/or access information on a device (in other words, use ... [+678 chars]",
              "If you click 'Accept all', we and our partners, including 238 who are part of the IAB Transparency & Donsent Framewor
             k, will also store and/or access information on a device (in other words, use ... [+678 chars]",
```

API Integration II

A través de Hugging Face encontramos la API de Facebook BART para hacer resúmenes.

import requests

```
API_URL = "https://api-inference.huggingface.co/models/facebook/bart-large-cnn"
headers = {"Authorization": f"Bearer {bart_api_key}"}

def query(payload):
    response = requests.post(API_URL, headers=headers, json=payload)
    return response.json()

output = query({
    "inputs": articulo[1],
})
```

Results

```
#Displaying results in good format from IPython.display import display, HTML

# Formatting the output text model_output = f"<h3>Resumen:</h3>"
conclusion_output = f"{resumen}"
ai_notice = f''<div style='margin-top:20px; color:gray;'><i>This selection and explanation have been generated by GPT-based generative AI based on the tested model results.</i>
# Combining the format and displaying the output final_output = f''<div style='border:1px solid black; padding:10px;'>{model_output}{conclusion_output}{ai_notice}</div>"
display(HTML(final_output))
```

Resumen:

Apple's new iPad Pro was unveiled at an event in Cupertino, California. The company held a livestreamed keynote and held a hands-on event for media afterward. The event was meant to be a showcase for the iPad Pro, but it was more of a PR stunt.

This selection and explanation have been generated by GPT-based generative AI based on the tested model results.

Lessons Learned

Primero intentamos generar el resumen con la API de ChatGPT, pero vimos que ya no hay versiones gratuitas. Así que pasamos a intentarlo con la API de Facebook -BART- que elegimos a través de Hugging Face del listado de API de open source para hacer resúmenes.

La implementación ha sido muy sencilla y rápida.

Generar el código para ocultar las API keys ha sido casi la parte más compleja.