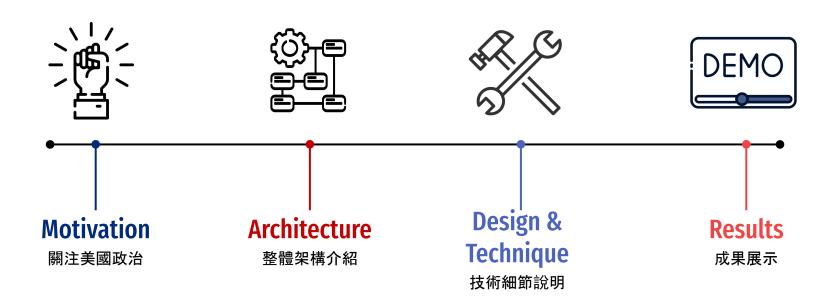
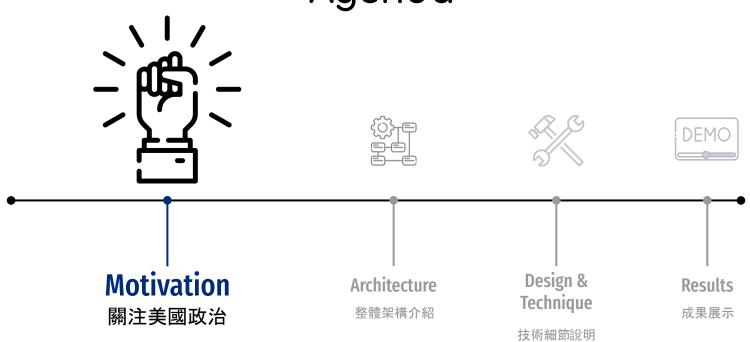
AI Deepfake Detection in US election

中華電信題目不是通訊我就報

第一組:徐瑞澤、陳樂穎、解心妤、曾家祐、游宗易





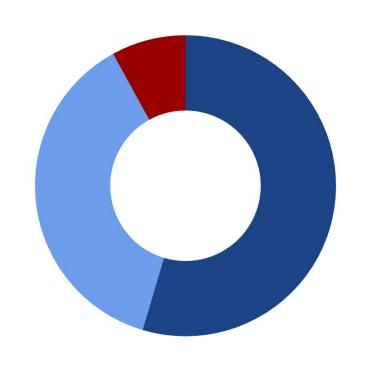
若發生中臺衝突,臺灣民眾對美國的看法

54.7% 無論選舉結果

皆會協助台灣

37.5% 無論選舉結果

皆不會協助台灣



8.0% 特定黨派當選

才會協助台灣

據外媒調查 1500 位臺灣人觀點, 資料來源 https://www.brookings.edu/articles/how-taiwan-and-so uth-korea-see-democrats-republicans-and-america/

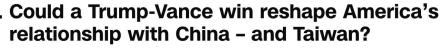
但是…這些變數發生了

Trump says Taiwan stole America's chip industry. Could a Trump-Vance win reshape America's But that's not true

Analysis by Wayne Chang, CNN

2 5 minute read · Updated 7:33 PM EDT, Wed July 24, 2024







Analysis by Simone McCarthy, CNN

① 7 minute read · Published 4:39 AM EDT, Thu July 18, 2024







於是 臺灣的新聞

洪耀南觀點》2024美國總統

大選:習近平更希望誰當

選?



美國大選與兩岸角力學者齊聚東海大學解讀全球新局勢| 政治



經濟與移民成美大選倒數焦點弱勢選民陷抉擇| 國際

美國總統大選倒數3週,民主黨賀錦麗、共和黨川普主攻通膨與移民,這2大選民最關切



⑥ 中央社 CNA

||普:澤倫斯基根本不該讓俄烏戰爭發生|國際

奇摩新聞

搖擺州意思是什麼?2024美 國大選搖擺州有哪些?最新 民調為何?





The News Lens 關鍵評論網

2024美國大選小遊戲:五個

冷知識讓你比別人更懂美國

政治!

1 天前



--- BBC

首個投票日(10月15日),超過32.8萬人完成投票,是上屆選舉的兩倍多。



李顯龍評美國大選:美中緊張情緒短時間無法化解籲世界正視

隨著美國總統大選的日子不斷逼近,越來越多民眾開始關注兩黨候選人當選後,分別會



臺灣人瘋美國政治

真正了解多少



美選提前投票陸續開跑兩陣營搖擺州催票| 國際



2024美國大選日期、開票時程、選舉制度、搖擺州、賀錦麗



票所投票外,還會視各州規定可提前至投票所投票或是郵寄選票,.

美大選兩黨爭相搶攻賓州選票 川普號召支持者衝「餅乾民

美國賓州是大骥的關鍵搖擺州,吸引兩黨爭相搶攻。川普陣營發動空戰,號召支持者到 賓州一家麵包店,為川普餅乾衞高買氣、提振士氣。賀錦麗陣營則發動陸戰,

其他多州展開提早投票作業。官方數據顯示,這個關鍵搖擺州之一的提早投票

大紀元新聞網 大紀元新聞網

中共假冒美國人影響2024年 大選













但在進一步分析前需要

- 1. 了解美國政治現況
- 2. 充足資料來源
- 3. 參考多方論述

4. 媒體識讀能力

Which is TRUE?



Which is TRUE?



Which is TRUE?



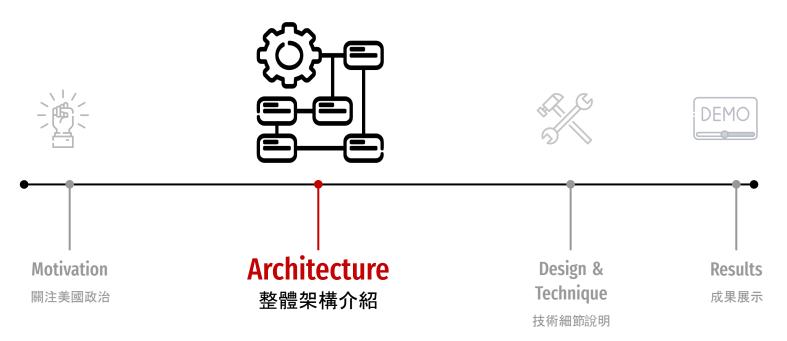


如何提高媒體識讀能力

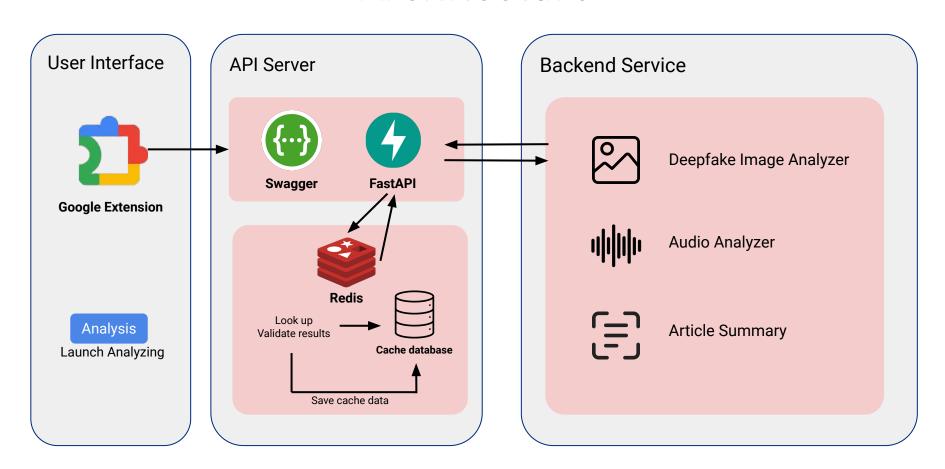
- 1. 多方閱讀與分析
- 2. 不輕信未經證實言論
- 3. 多加查證、不散佈傳言

4. Al Deepfake Detection in

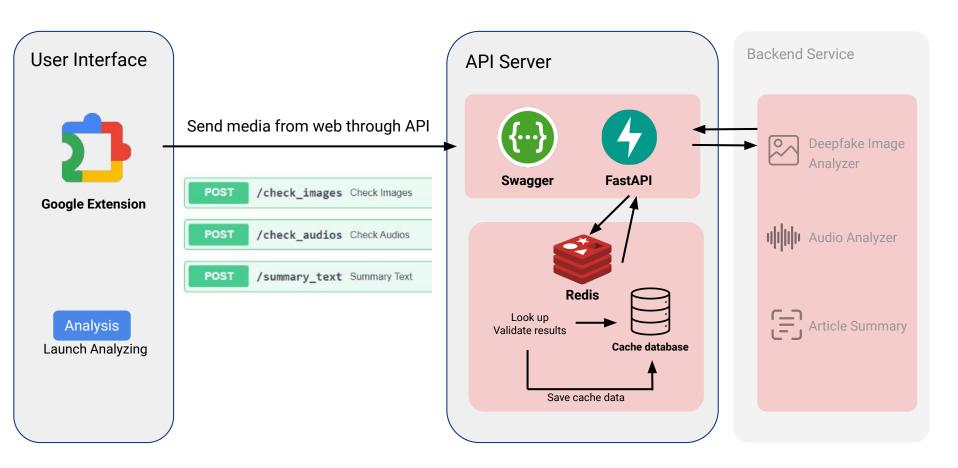
US election



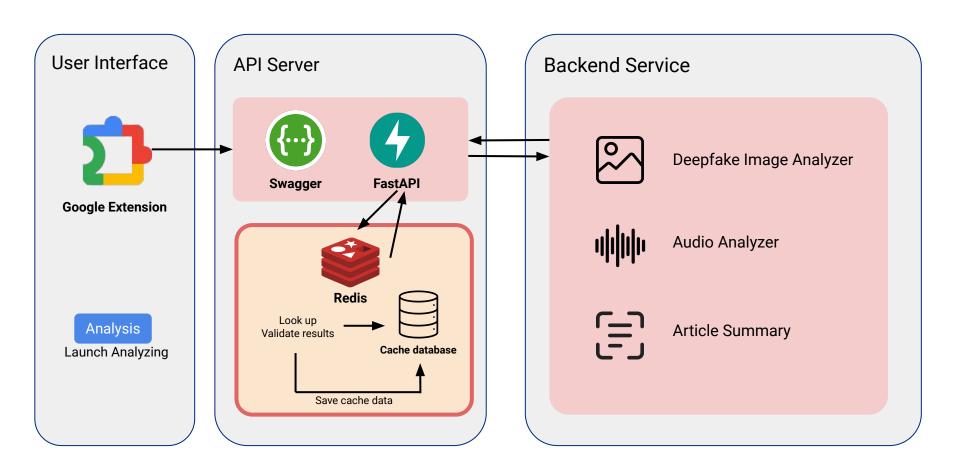
Architecture

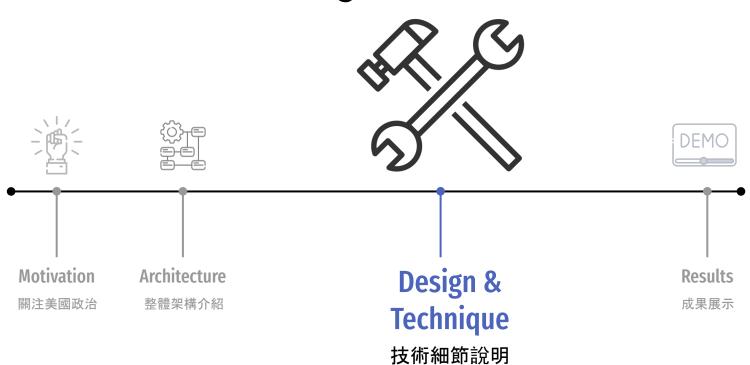


Architecture

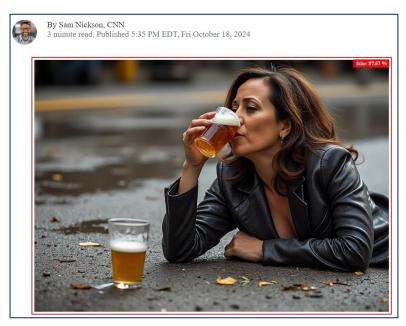


Architecture

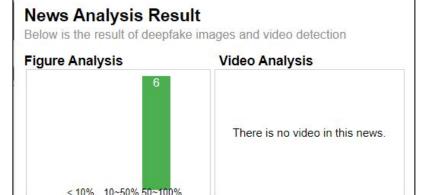




Chrome Extension



Parsing Image and show the detection result



Article Summarize

- The White House has dismissed rumors about Vice President Kamala Harris's alleged alcohol addiction as 'entirely baseless' and 'fabricated'.
- The rumors circulated on social media without credible evidence, prompting a spokesperson to emphasize Harris's commitment to her responsibilities and health.
- Political commentators suggest these rumors may be part of a disinformation campaign aimed at undermining Harris's credibility.
- Despite the spread of false claims, analysts believe they are unlikely to significantly impact Harris's standing within the administration or among supporters.

Does the information given helps you?

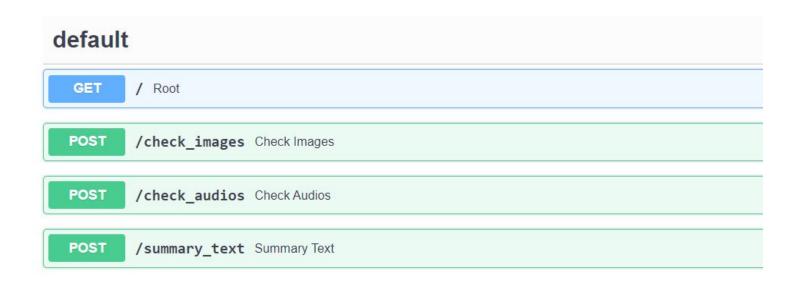


No

API Endpoint

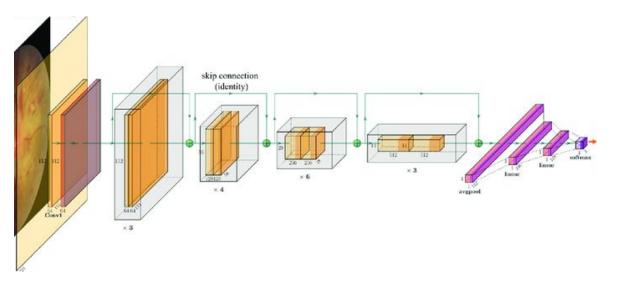


/openapi.json



Deepfake Image Analyzer

Resnet-based neural network with pretrain and finetune





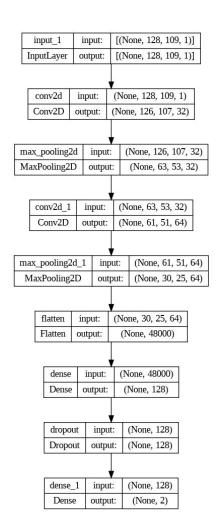
1st: Thousands of human images



2nd: hundreds of politics images

Audio Analyzer

- Preprocess:
 - a. Decide the part of audio to detect
 - b. Resize the input to require shape
- Model:
 - a. CNN based model to detect the model is fake or not



Article Summary



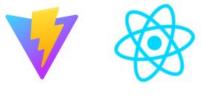
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Use GPT-40 to Summarize the news content

Summarized by gpt-model

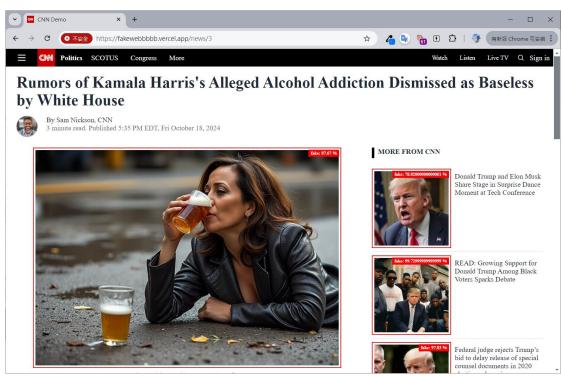
Fake Website Demo



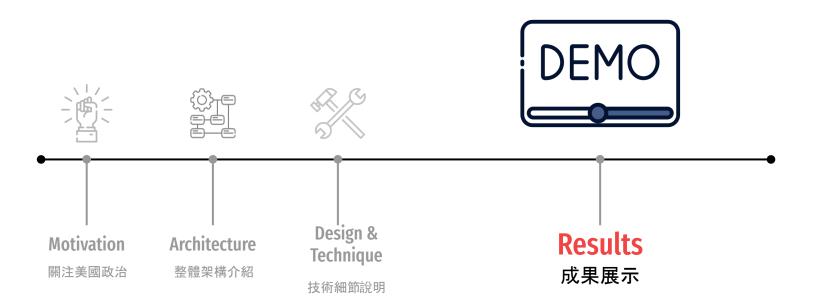
Frontend Framework



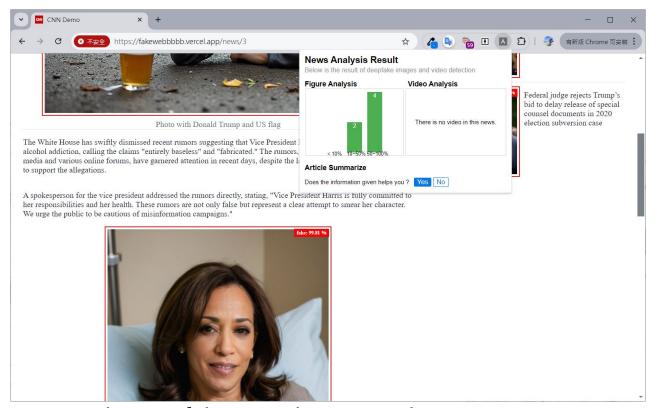
Fake image generation



Fake news simulation website



Demo



https://fakecnnpolitics.vercel.app/news/2

Thank you!