

VERIFIAI

Reframing our relationship with information

PRESENTED BY:

AI Rooster

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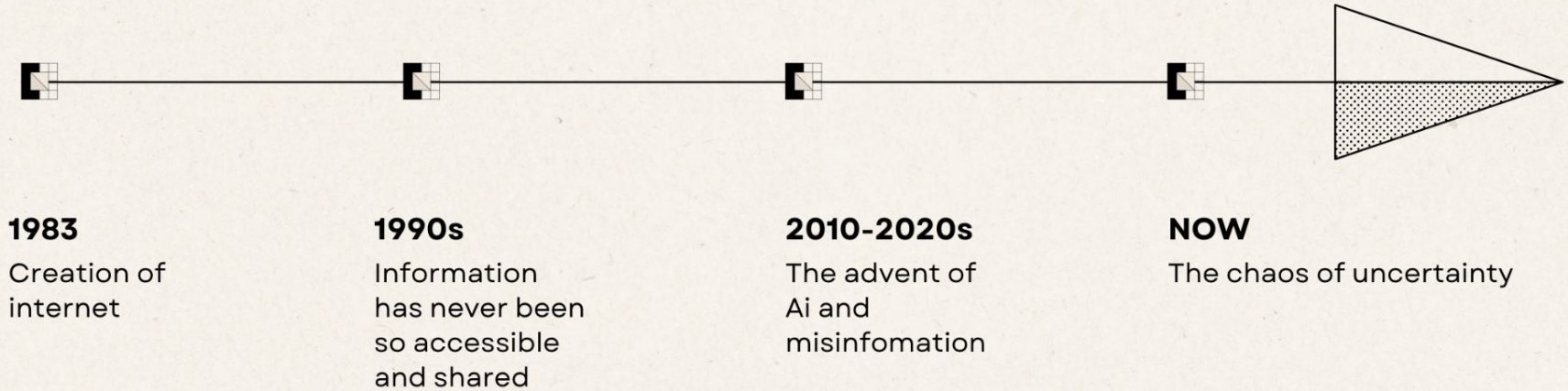
Kang Yu Chen

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THE TIMELINE

That has lead to our present and future



THE PROBLEM

That lies at the heart of our information-driven society

The rise of social media and AI has amplified content creation, making it harder to distinguish fact from fiction. With **misinformation spreading rapidly** and attention spans shrinking, there's a **growing need for quick, efficient fact-checking solutions.**

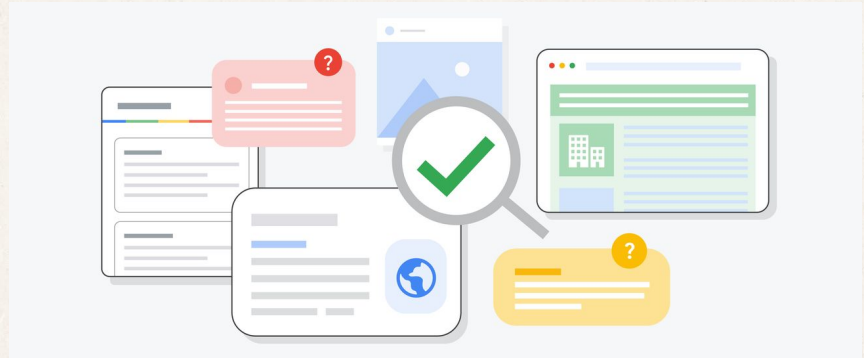
Misinformation

Fake News

Competition

Fact Checking Sites

Too disruptive, takes user away from their current focus

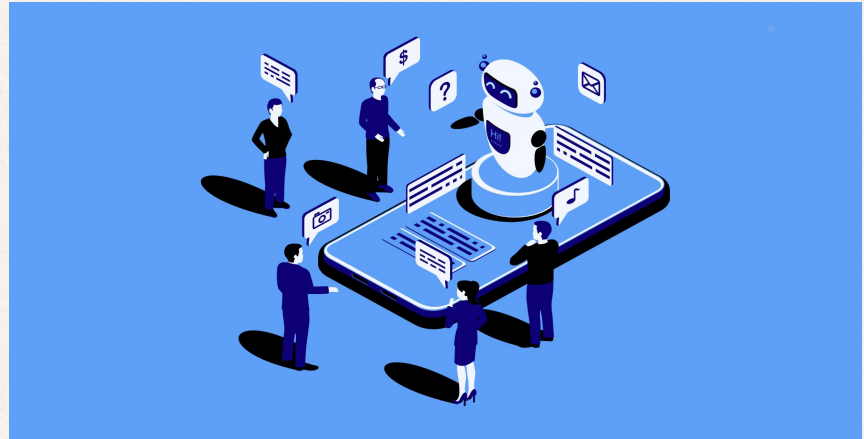


GenAI tools/ Search Engines

Too time consuming, require manual research

Human Analysis

Too complex, require users to read and decipher the truth by themselves



Our Solution: VerifiAI

Quick and easily processing of data just by taking a single screenshot using our extension

Step # 1

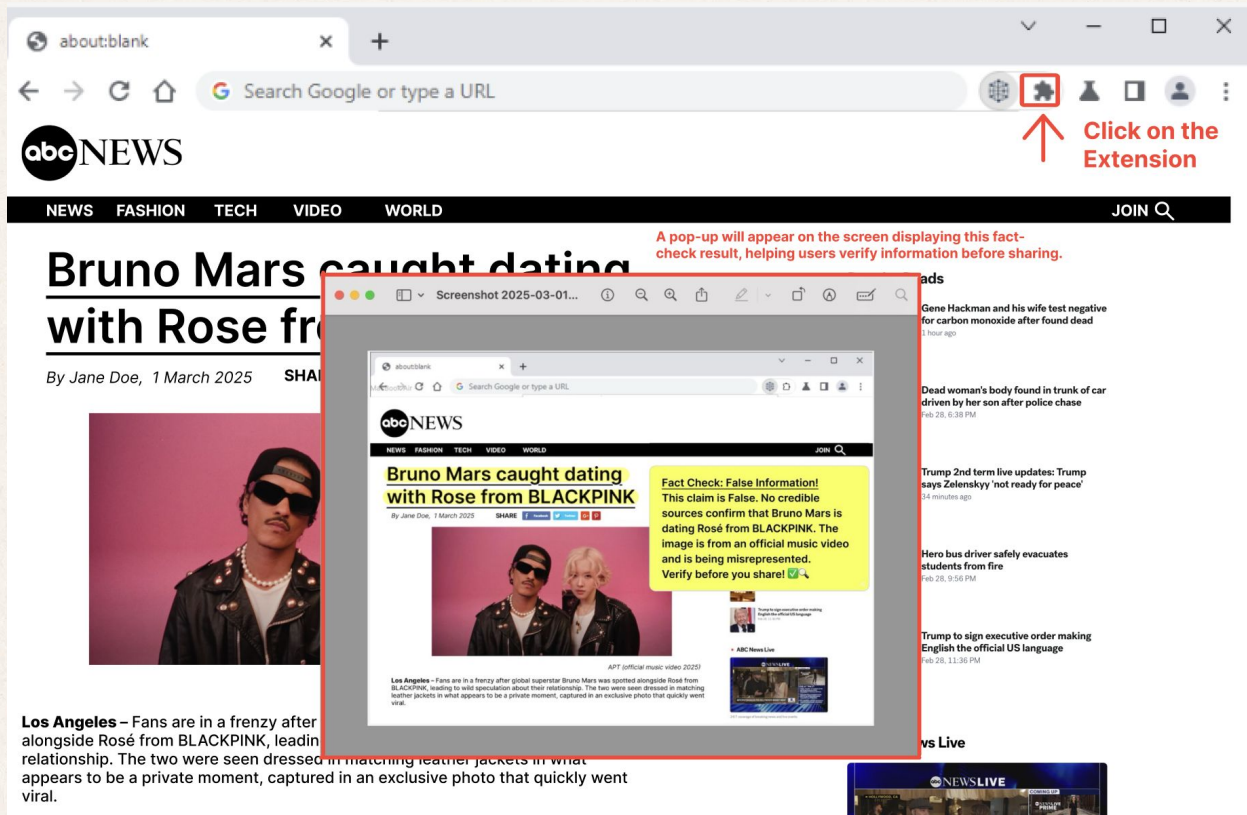
User clicks on chrome extension

Step # 2

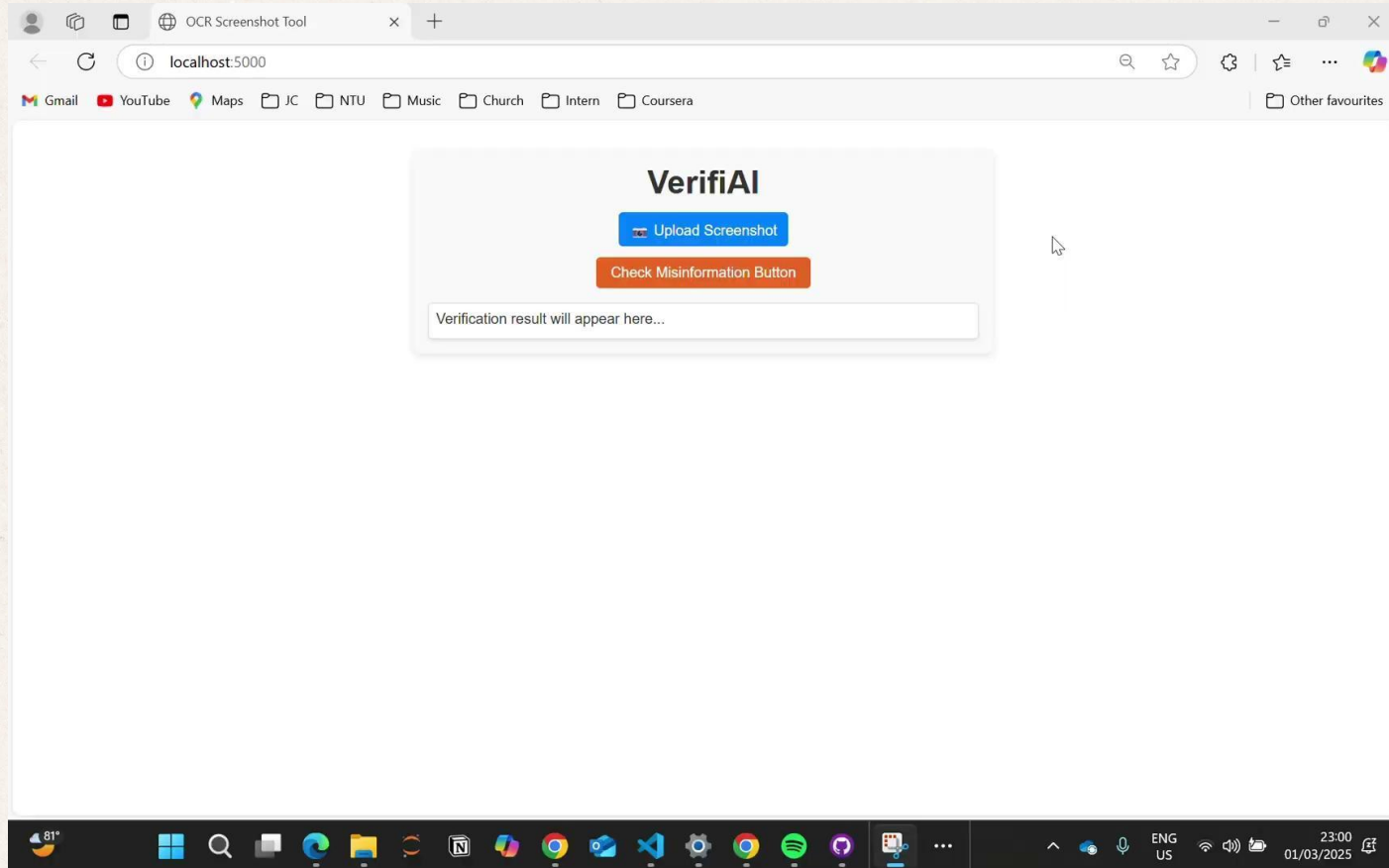
Extension takes a screenshot, and extracts text from screenshot image

Step # 3

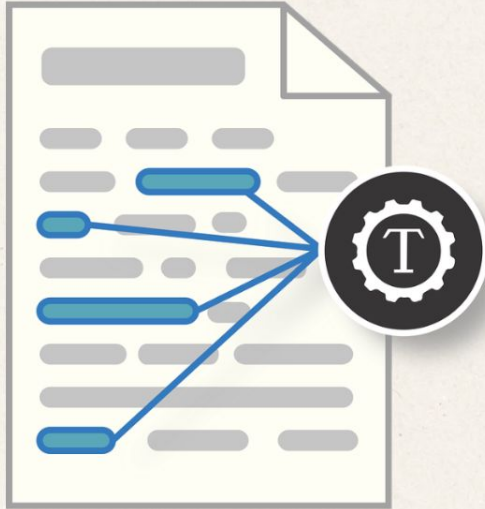
The text is fact-checked with sources and explained to user



Our Prototype



Text Extraction



Tesseract:
open-source Optical Character Recognition (OCR)
engine

Takes an image—such as a scanned document, a photograph of a sign, or any other picture containing text—and extracts the text from it. The result is machine-readable text that can be edited, searched, or processed further.

Truth Determination

RAG (Retrieval-Augmented Generation)

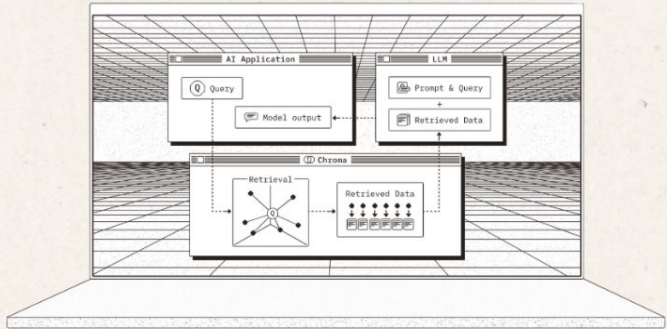
Enhances language models by retrieving relevant information from external sources before generating a response.

Chroma

Converts text into embeddings for similarity search using a vector database

Google's Fact Check Tools API

API is used to get real-world fact-check information.



Constraints



Chrome Manifest V3 CSP

Updated Content Security Policy as part of manifest V3

- Prevented us from using 3rd party APIs and objects
- Were unable to implement our solution on a extension currently
- Temporary compromise: reflected the features using a webpage instead

Tech Stacks Used

- HTML, CSS, JavaScript, Python, LangChain



Thank You