Say Facts!

AI-powered fact checker to combat fake news and misinformation

Digital Media Landscape

Rapid Transformation

The media world has undergone a dramatic evolution–from traditional newspapers and TV broadcasts to a fast-paced, digital ecosystem dominated by user-generated content and real-time updates.

Emerging Challenges

- **Content Moderation:** Monitoring and filtering vast amounts of user-generated content has become increasingly complex.
- **Deep Fakes:** Sophisticated media manipulation techniques now enable the creation of realistic but false images and videos.
- **Bias & Misinformation:** The spread of biased or unverified information is distorting public discourse and trust.

Why It Matters?

Trust in Media

Reliable and verified information is essential for an informed public. Inaccurate or manipulated media erodes trust and can have wide-ranging consequences.

Societal Impact

- **Polarization:** Misinformation and biased reporting can deepen societal divisions.
- **Democratic Integrity:** The quality of media directly affects electoral processes and public policy decisions.

Addressing these challenges is crucial to ensure that digital media remains a trustworthy, transparent, and safe source of information for all.

The Solution

Say Facts!

Truth at your fingertips

AI-driven system designed to enhance media reliability and combat misinformation on X (formerly Twitter) by:

Scraping & Analyzing Posts

- Automatically extracting key information from posts and replies using Selenium-based web scraping.
- Capturing both the main post and responses to assess contextual relevance.

AI-Powered Bias & Fact-Checking

- Detecting potential bias in posts by leveraging AI-powered analysis.
- Fact-checking claims using OpenRouter’s API to retrieve structured verification results.

Reliable & Transparent Results

- Validating sources and URLs to ensure accuracy using regex and HTTP checks.
- Generating structured reports that provide clear, AI-assisted insights on media integrity.

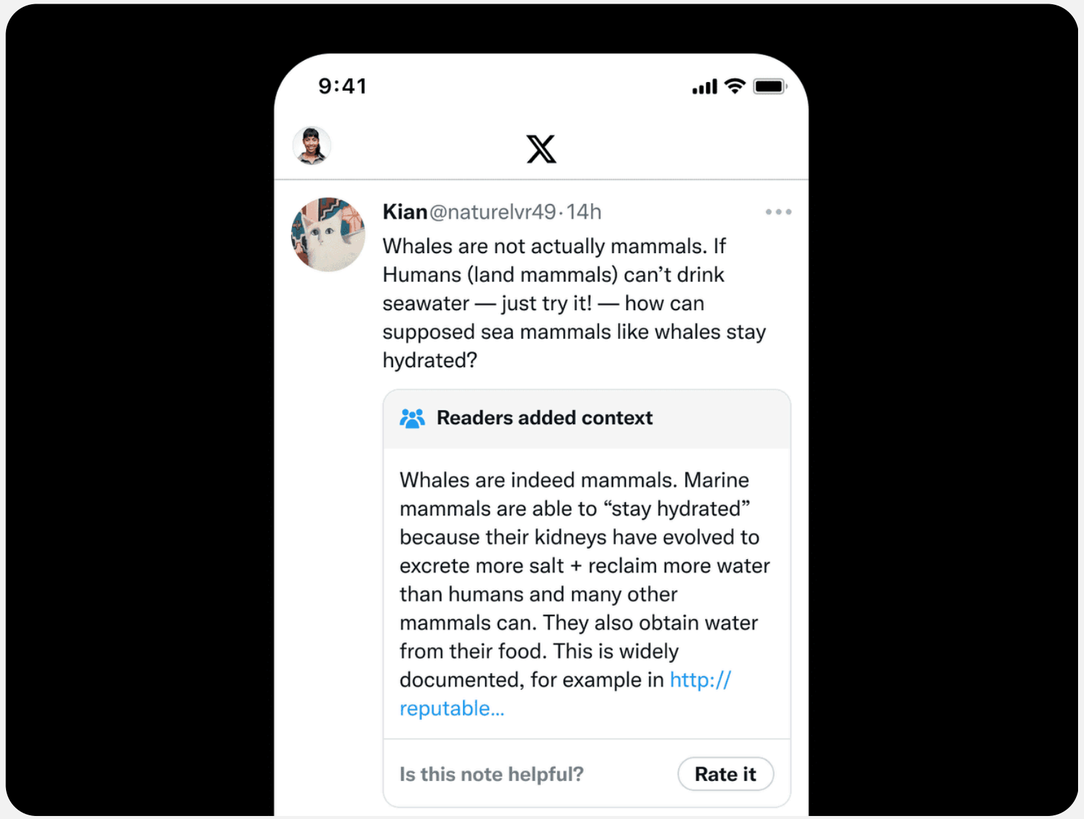
X & Community Notes

What are Community Notes?

Community Notes is an X (Twitter) feature that lets contributors add fact-checks or clarifications to posts, images, or videos. It's a crowd-sourced moderation tool aimed at improving transparency and trust.

How Does Community Notes Work?

- **Crowd-Sourced Moderation:** Users contribute notes, offering diverse perspectives.
- **Bridging-Based Algorithm:** Notes are applied based on cross-spectrum agreement, reducing bias.
- **Context Focused:** Ensures posts include clear, balanced, and informative context.



Why Our Approach is Better

AI-Powered Verification vs. Crowd-Sourced Moderation

Faster & Scalable

- Community Notes relies on manual contributions, causing delays.
- Our AI automates fact-checking and bias detection in real time.

AI-Driven & Unbiased

- Community Notes depends on user agreement across perspectives.
- Our system directly analyzes content via AI, removing crowd bias.

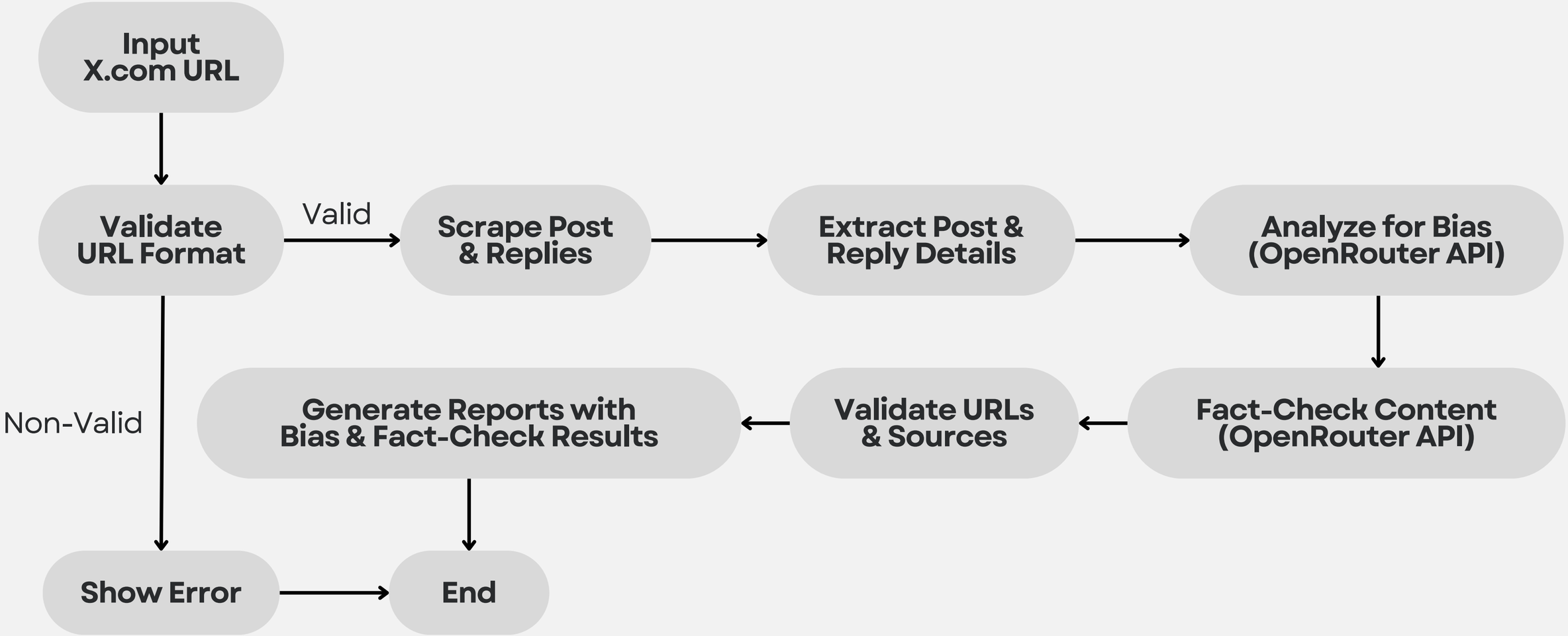
Fact-Based & Verified

- Community Notes lacks real-time source validation.
- Our tool automatically verifies URLs and sources for accuracy.

Structured & Reliable Reports

- Community Notes explanations vary by contributor.
- Our system generates AI-assisted reports with clear bias and fact-check insights.

How Does It Work?



Example

Introducing Ian Miles Cheong (X: @stillgray)

- Ian Miles Cheong, a Malaysian journalist and social media influencer with over 1.2M followers on X, rose to prominence during the Gamergate controversy in 2014, initially as a gaming commentator before shifting to outspoken right-wing political takes.

- Today, he’s recognized for his provocative and often biased posts, focusing on U.S. politics, culture wars, and global issues, despite living outside the West.

- His past includes notable controversy, such as early extreme views—once praising Adolf Hitler in chat logs, which he later attributed to toxic gaming culture—followed by a public pivot from progressive to conservative stances.

- Cheong’s tweets, blending opinion with bold and sometimes questionable claims, makes him a compelling case for AI-driven fact-checking.

Example

Sample Post by Ian Miles Cheong

Sample Output

```
Scraping X.com post...

--- Main Post Analysis ---
MAIN POST: Ian Miles Cheong (@stillgray): The left-leaning mainstream media is sounding the alarm over rising spending (though they stayed silent when Biden did it r

Bias Detection:
**Verdict**: Right

**Key Indicators**:
- Labels media as "left-leaning mainstream media," a common conservative framing to delegitimize critics.
- Contrasts media "silence" under Biden with current spending criticism, implying partisan hypocrisy.
- Praises the "DOGE Act" as unambiguously beneficial for "blue-collar" workers, framing tax cuts as universally positive without scrutiny.

**Context Analysis**: The text dismisses left-aligned media as biased while promoting a policy (tax cuts) typically championed by conservatives. The contrast between

Fact-Checking:
Validating 2 URLs...
Validating URLs...
[1] Verification: Misleading

[2] Evidence-Source Pairs:
- 1. Major outlets like AP and Reuters consistently reported on debates over Biden's spending bills, including inflation concerns (https://apnews.com/article/biden-b
- 2. Media outlets have criticized recent Republican-led spending proposals (e.g., tax cuts weighted toward corporations), contradicting the claim of "no downside" (

[3] Confidence: Medium

[4] Verified Sources:
- https://apnews.com/article/biden-budget-deficit-republicans-congress-6b8a7c1e5f4d4e3a9f0c7d2e1a8b6c3d
- https://www.reuters.com/article/us-usa-tax-republicans-idUSKBN2A12EK


**Explanation**:
The claim is misleading. First, mainstream media (e.g., AP, Reuters) did report on fiscal debates during Biden's tenure, including criticism of spending's impact on

URL Validation: 2 valid, 0 invalid

Process finished with exit code 0
```

Future Work & Improvements

Scalability & Performance

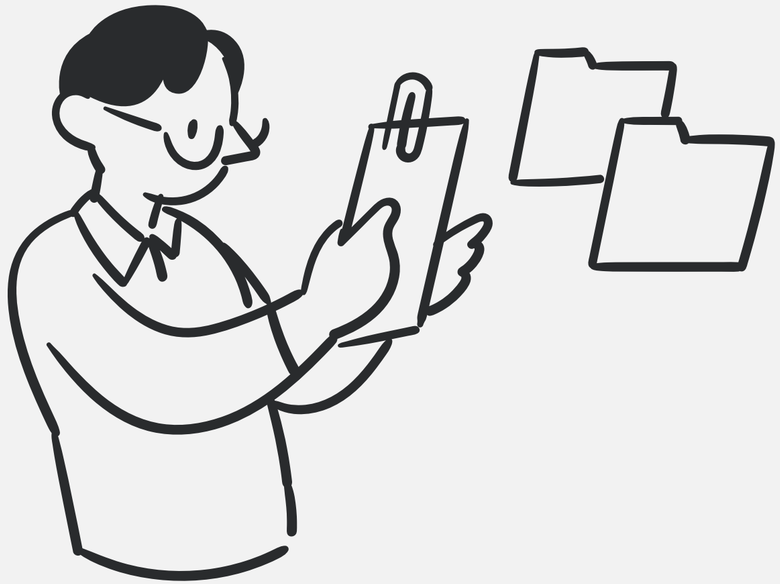
- Optimize Selenium scraping to reduce runtime delays.
- Implement asynchronous processing to improve speed.
- Explore lighter browser automation tools or API-based alternatives.

Feature Enhancements

- Develop a user-friendly UI for easier interaction.
- Improve AI analysis speed by refining API calls and processing logic.

Additional Integrations

- Expand fact-checking sources beyond current validation methods.
- Enhance real-time analytics for dynamic misinformation tracking.



Thank You