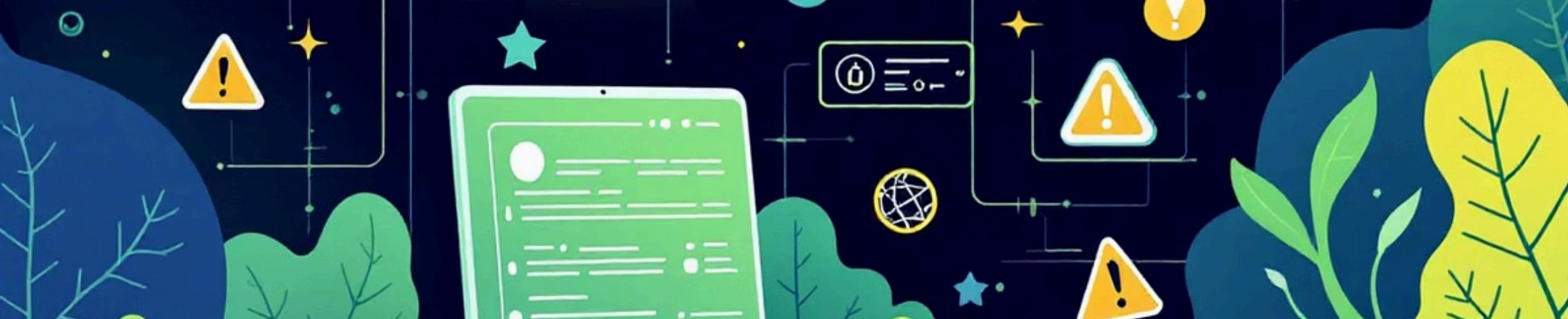


CyberSphere

An All-in-One Platform for Digital Trust and Verification

A Project by Team CodeBlooded





The Problem

Millions face online deception daily: scam websites, phishing links, fake news, and deepfakes. Traditional security tools address only technical threats; fact-checkers handle only news. No single, user-friendly platform empowers everyday users to verify authenticity with clear explanations, leading to financial loss and digital vulnerability.



The Opportunity

All-in-One Verification

Combine website scanning, fake news detection, and media verification in a single platform.

Rising Need for Safety

Increasing scams and misinformation create growing demand for easy-to-use verification tools.

Explainable AI

Users prefer clear, human-readable reasons, not just "safe" or "dangerous" labels.



Our Multi-Modal Detection Approach

1

Website Scanner

Heuristics (SSL, domain age) + ML for phishing detection.

2

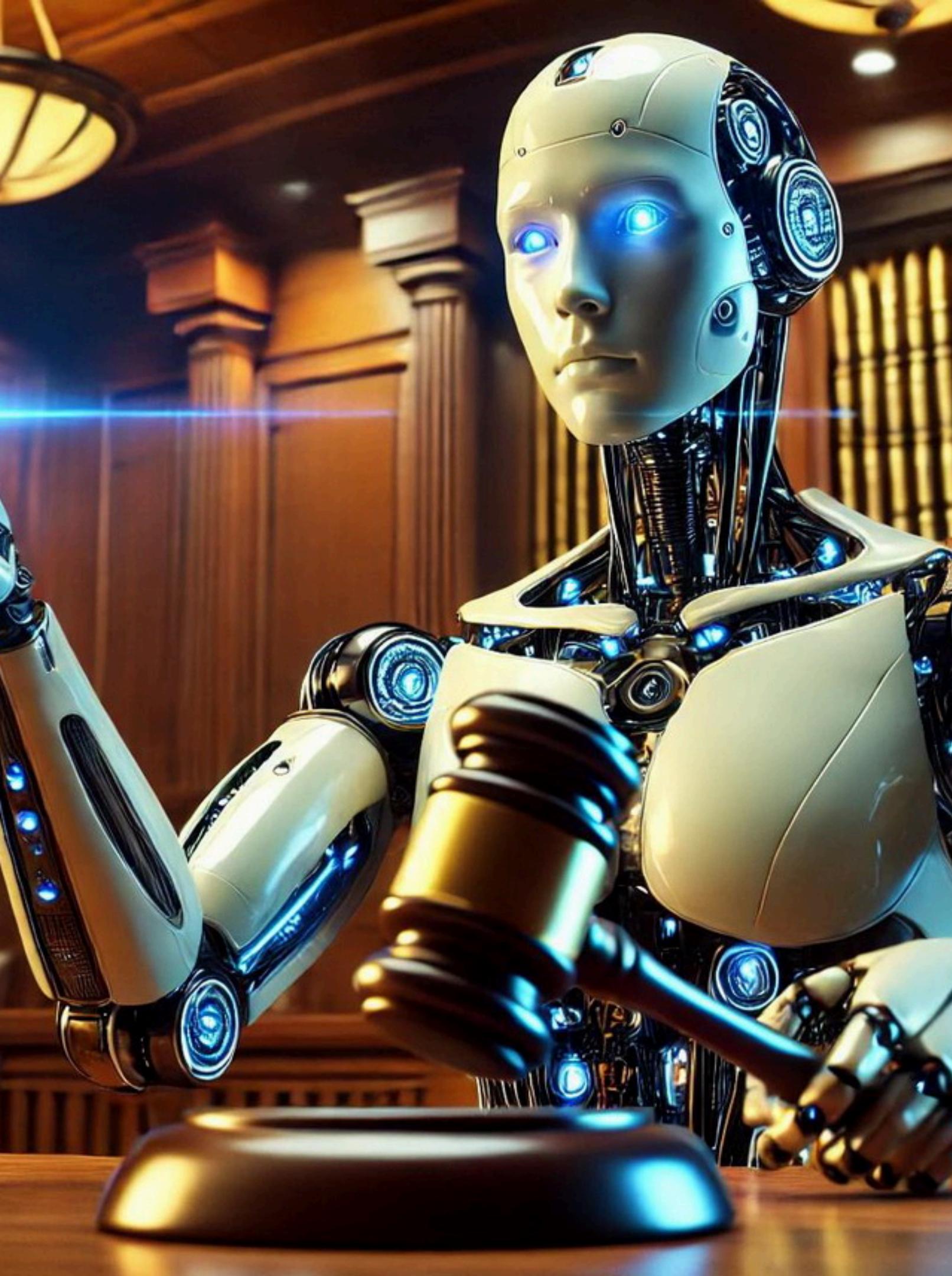
News Checker

NLP-based classifier identifies fake or misleading news.

3

Deepfake Detector

Analyzes media for manipulation artifacts and authenticity.



Explainable AI: Transparency at Core

Human-Readable Verdicts

Every detection includes clear reasoning, not just binary judgments.

Deterministic + ML

Combines model predictions with transparent checks for full accountability.

Technology Stack



Frontend

React/Next.js with Tailwind CSS for responsive interface.



Backend

Flask/Node.js APIs with SQLite/PostgreSQL databases.



AI/ML

Scikit-learn, Random Forest, TF-IDF, Logistic Regression.



Threat Intelligence

PhishTank, OpenPhish, WHOIS, SSL validation, domain checks.

System Architecture & Process Flow

1

User Input

User inputs URL, headline, or media via frontend interface.

2

Backend Routing

Request routed to appropriate detection module.

3

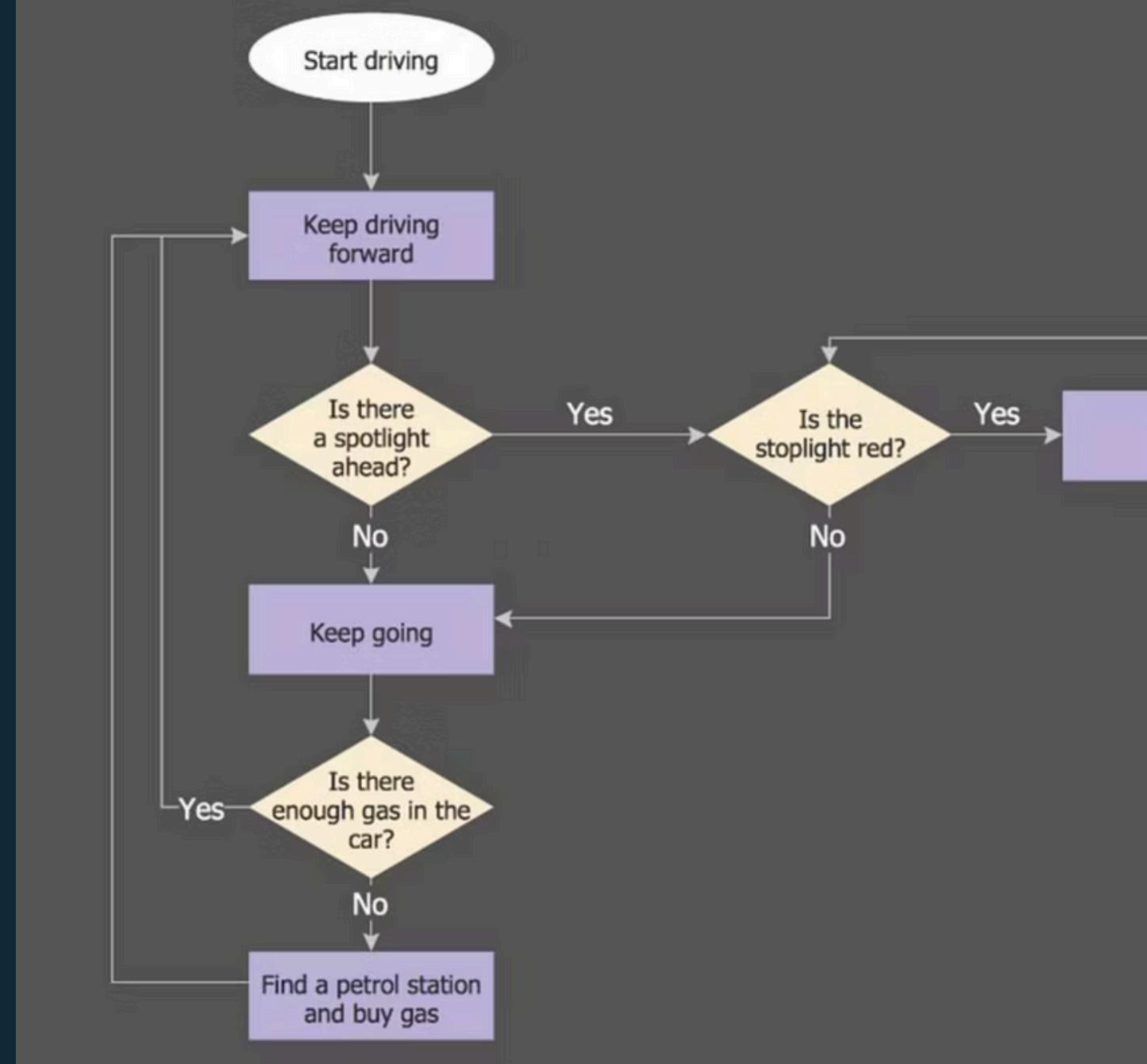
Detection Analysis

Website, news, and deepfake detectors analyze input.

4

Output Dashboard

Explainable AI generates trust score, reasons, and recommendations.





Deployment & Scalability

Deployment

- Frontend: Vercel/Netlify
- Backend: Render/Heroku
- Scalable cloud infrastructure

Future Expansion

- Browser extensions
- Mobile applications
- Enterprise solutions



Questions?

Thank You