RESEARCH CONCEPT · GOVTECH · AI · FRAUD DETECTION · APRIL 2026

AI-Based Political Performance Analyzer

Real-time MLA performance scoring using public data, sentiment analysis, development impact tracking, and AI-powered fake support detection.

The Problem

Citizens have no reliable, data-driven way to evaluate the performance of elected representatives. Political ratings are easily manipulated through bot voting, paid reviews, and coordinated fake support campaigns. This system addresses both the measurement gap and the fraud problem.

3 Layers	Real-time	AI-powered
Data Collection	Performance Score	Fraud Detection

System Architecture

DATA COLLECTION LAYER

- News API scraping: District-level news coverage, scheme announcements, and development project reports.
- Public complaint portals: CPGRAMS, state grievance portals — complaint volume and resolution rate per constituency.
- Government scheme databases: Fund allocation vs. utilisation, project completion status.
- Social media signals: Public mentions, sentiment, engagement patterns (filtered for authenticity).

SCORING ENGINE

- Development impact score: Weighted combination of project completion rate, fund utilisation, and infrastructure metrics.
- Citizen sentiment score: NLP analysis of verified public feedback, filtered for bot activity.
- Responsiveness score: Complaint resolution rate and response time from public portals.
- Consistency score: Promises made vs. actions taken, tracked over electoral term.

Fraud & Bot Detection

Political ratings are vulnerable to coordinated manipulation. The system includes a dedicated AI layer for detecting inauthentic activity:

- Bot fingerprinting: Detect automated accounts via posting velocity, account age, and behavioural patterns.
- Coordinated inauthentic behaviour: Identify clusters of accounts posting similar content within short timeframes.

- ☐ Fake review detection: Classify reviews as authentic or manufactured using language model perplexity scoring.
- ☐ Trust score overlay: All data points are weighted by source trust score before contributing to performance rating.

Innovation Angle

No existing system combines development impact analysis, citizen sentiment, and fraud detection into a unified political performance score. The unique value is the fraud layer — without it, any public rating system can be gamed. The patent novelty lies in the scoring algorithm and the fraud detection logic applied to political data specifically.

Patent Differentiators

- ☐ Scoring algorithm: Multi-factor weighted scoring combining public data, sentiment, and delivery metrics.
- ☐ Fraud detection logic: AI classification of political support manipulation specific to governance contexts.
- ☐ Cross-source trust calibration: Method for normalising trust across heterogeneous public data sources.

PATENT CONCEPT

"AI-driven governance evaluation system"

This concept contains novel algorithmic approaches that may qualify for patent protection. Consult a patent attorney before public disclosure.