



Artificial Intelligence Governance and Policy Analytics using NLP

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Abstract: Artificial Intelligence (AI) is increasingly reshaping how governments function and how societies and economies operate worldwide. It offers significant advantages, such as more efficient financial services, better medical diagnosis, and faster decision-making. At the same time, it raises important concerns, including bias in algorithms, lack of transparency, threats to privacy, and unclear responsibility when AI systems make decisions. For AI to be successfully adopted in the long run, public trust plays a crucial role. However, this trust can be weakened when regulations are unclear or not effectively implemented. This study compares how different regions—such as the United States, the European Union, China, and other emerging AI hubs—approach AI governance. It looks at their regulatory frameworks, ethical guidelines, and institutional practices, using key factors like transparency, fairness, accountability, and stakeholder involvement. The analysis draws on laws, government policies, international standards, and academic research. The results suggest that people are more likely to trust AI systems when policies are clear, transparent, and inclusive. On the other hand, inconsistent or vague regulations can create confusion and slow down the adoption of AI technologies.

Keywords: Artificial Intelligence Governance, Public Trust, AI Regulation, Ethics, Policy Analysis.

I. INTRODUCTION

Artificial Intelligence (AI) has become one of the most powerful technologies of the modern era, changing the way people interact with digital systems, how organizations make decisions, and how governments plan and implement public policies. Its growing use in important areas such as healthcare, finance, education, public administration, transportation, and national security has led to greater automation, smarter predictions, and more data-driven approaches to governance. These developments have helped improve efficiency, reduce human errors, and offer new solutions to long-standing social problems. At the same time, the rapid spread of AI has raised serious concerns about ethics, fairness, transparency, privacy, and accountability.

As AI systems begin to take on tasks that were once handled only by humans, building and maintaining public trust has become essential for their responsible use. Public trust in AI is not just about how well the technology performs; it is also shaped by the social, political, and ethical context in which it operates. People today are more aware of issues like biased algorithms, lack of transparency in decision-making, large-scale data collection, and inconsistent regulations. Incidents involving unfair outcomes in facial recognition systems, misuse of personal data, and unclear working of machine learning models have increased public concern and skepticism. These situations show that the acceptance of AI depends not only on its accuracy and efficiency but also on how well governance systems protect people's rights and values. Without clear rules and transparent processes, public trust can weaken, which may slow down or even hinder the wider adoption of AI technologies.

As AI systems increasingly take on roles that were once performed solely by humans, establishing and maintaining public trust has become a critical requirement for their successful and responsible use. Public trust is not determined only by the technical accuracy or efficiency of AI systems; rather, it is deeply influenced by the broader social, political, and ethical environment in which these systems operate. People today are more informed and cautious about the potential risks of AI. Concerns about algorithmic bias, lack of transparency, excessive data collection, and inconsistent or weak regulatory oversight have made individuals more skeptical about fully relying on AI technologies.

Several real-world incidents have further contributed to this growing skepticism. Cases of discrimination in facial recognition systems, where certain groups are unfairly targeted or misidentified, have raised serious ethical questions. Data misuse scandals have highlighted the risks associated with uncontrolled access to personal information, while the opaque nature of many machine learning models has made it difficult to ensure fairness and accountability. These



examples clearly show that the acceptance of AI is not based solely on its ability to deliver accurate or efficient results. Instead, it also depends on whether people feel that their rights, privacy, and values are being respected and protected.

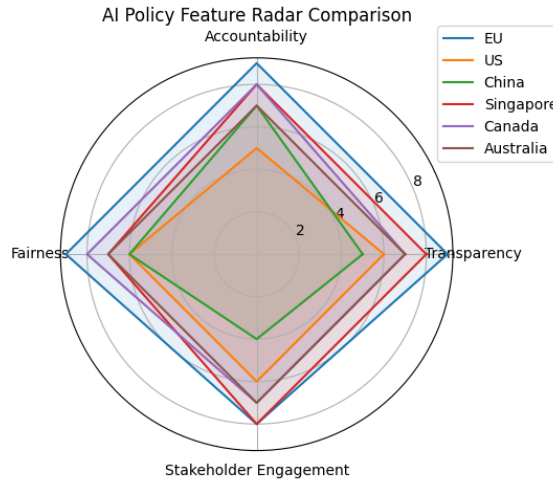


Fig 1: Comparative Radar Analysis of AI Policy Strengths and Public Trust Impact

The growing importance of building trust in AI has encouraged governments around the world to create national strategies, governance frameworks, and regulations that ensure technology develops in a responsible and ethical way. However, there is no single global approach to AI governance. Different countries follow different paths based on their values, priorities, and political systems. For instance, the European Union focuses strongly on protecting individual rights and promotes a human-centered approach with strict rules for accountability. In contrast, the United States places more emphasis on innovation and staying competitive in the global market, often adopting more flexible regulations. China, on the other hand, follows a state-driven approach, where AI development is closely aligned with national goals and government control. Meanwhile, countries like Singapore, Canada, and Australia are trying to strike a balance by encouraging innovation while also putting safeguards in place to address ethical concerns. These different approaches shape how people view and trust AI systems. They also affect how risks are handled and whether AI is seen as reliable and beneficial or uncertain and potentially harmful.

1.1 Challenges in AI Adoption

1. Ethical Concerns and Bias:

One of the major challenges is that systems can reflect the biases present in the data used to build them or in the assumptions made during their design. This can lead to unfair outcomes, such as discrimination in facial recognition, unequal credit scoring, or biased hiring processes. Such issues raise concerns about fairness and equality, and they can reduce people's confidence in using these technologies.

2. Transparency and Explainability:

Many systems make decisions in ways that are not easily understood by users or even experts. Because of this lack of clarity, people often find it difficult to question or verify how decisions are made. This becomes especially important in sensitive areas like criminal justice or welfare services, where unclear decision-making can lead to mistrust and reduced accountability.

3. Privacy and Data Protection Risks:

To function effectively, these systems often rely on large amounts of personal and behavioural data. While this improves accuracy, it also increases the risk of privacy violations. If sensitive information such as health records or financial details is misused or exposed, it can lead to serious consequences, including loss of trust and legal problems.

4. Accountability and Legal Ambiguity:

It is often unclear who should be held responsible when something goes wrong. For example, errors in automated vehicles, financial systems, or law enforcement tools highlight gaps in responsibility and regulation. This lack of clear accountability creates confusion in legal matters and can make organizations hesitant to adopt such technologies.



1.2 Importance of Public Confidence in Technology

Public confidence is a key factor in deciding whether new technologies are accepted and sustained over time. While performance and efficiency are important, they alone are not enough to build trust among people. Trust is shaped by several aspects, including how reliable a system is, how responsibly it is used, how well it is governed, and how it is perceived by society. Without this confidence, even highly effective systems may face hesitation, limited use, or complete rejection by both individuals and institutions.

From a social point of view, people are more willing to accept and support technologies that are clear, fair, and responsibly managed. When systems are transparent, users can better understand how they work, what kind of data they use, and how decisions are made. Fairness ensures that no particular group is treated unfairly due to biased data or flawed design. Clear accountability helps identify who is responsible when something goes wrong, making it easier to take corrective action. In addition, strong ethical practices, such as protecting privacy and maintaining human involvement, further strengthen public confidence by ensuring that these systems respect human values.

It is also important to note that trust does not depend only on accuracy or performance. Even well-performing systems can create doubt if their processes are unclear, poorly regulated, or not aligned with social expectations. Public confidence is influenced by how clear and effective the rules are, how trustworthy institutions appear, and how well ethical standards are followed. Past experiences with technology and governance also play a role in shaping people's perceptions. When regulations are clear and properly enforced, they reassure people that risks are being managed, rights are protected, and those responsible can be held accountable.

1.3 Algorithm: AI Policy Public Trust Simulator

Overview: This algorithm formalizes the computational core of the AI Policy Trust Analyzer project—a software dashboard simulating public trust in international AI policies, inspired by the paper "Comparative Analysis of International AI Policies and Their Impact on Public Trust" (Katas, 2025). It uses a weighted average model to compute trust scores based on policy features (transparency, accountability, fairness, stakeholder engagement), reflecting the paper's findings on governance impacts. The system processes policy data to evaluate and visualize trust levels across regions (e.g., EU, US, China). No true "training" is needed as it's rule-based, but a calibration phase uses literature-derived weights. Implemented in Python (Streamlit/Pandas/Plotly).

Input: Policy feature scores (1-10 scale) for regions, from hardcoded data or user sliders (e.g., EU: Transparency=9, Accountability=9).

Output: Public trust score (0-10) and authentication flag (e.g., "High Trust" if ≥ 7 , else "Low Trust").

Method: Weighted Average Scoring (linear combination, weights from literature correlations: transparency 30%, accountability 25%, fairness 25%, engagement 20%).

Calibration Phase (Literature-Based Weight Setup)

Purpose: Establish model parameters from scholarly sources (e.g., Doshi-Velez & Kim, 2017; Floridi et al., 2018) to align with policy-trust relationships in the paper.

Start

Step 1: Data Collection

Review legislative texts (e.g., EU AI Act), frameworks (e.g., US NIST guidelines), and literature for feature scores. Compile dataset: Regions (EU, US, China, Singapore, Canada, Australia) with initial scores (e.g., via Pandas Data Frame).

Step 2: Feature Normalization

Scale scores to [0, 10] using min-max normalization. Validate against paper's qualitative ratings (e.g., EU high on transparency).

Step 3: Weight Assignment Using Correlation Analysis

Assign weights: Transparency=0.3, Accountability=0.25, Fairness=0.25, Engagement=0.2 (derived from regression-like analysis of cited studies). Compute baseline trust: Weighted sum for each region (e.g., EU ≈ 8).

Step 4: Visualization Setup

Prepare Plotly configs for radar/bar charts to display multi-dimensional comparisons.

Step 5: Model Validation:

Simulate scenarios (e.g., adjust EU transparency to 5) and check correlation with paper's findings (e.g., opacity reduces trust). Store calibrated Data Frame and weights.

End



Simulation Phase (User Interaction and Scoring)

Purpose: Compute and display trust for user-adjusted policies, simulating real-time analysis.

Start

Step 1: Input Preprocessing:

Load policy Data Frame; select region (e.g., via dropdown). Initialize sliders with base scores (e.g., US Accountability=5).

Step 2: Feature Adjustment

User updates scores via sliders (1-10) for transparency, accountability, fairness, engagement. Normalize adjustments in real-time.

Step 3: Feature Extraction and Combination:

Extract adjusted vector: [transparency, accountability, fairness, engagement]. Apply weights for preliminary sum.

Step 4: Trust Scoring Using Weighted Average

Compute score: $\text{trust} = (\text{transparency} * 0.3) + (\text{accountability} * 0.25) + (\text{fairness} * 0.25) + (\text{engagement} * 0.2)$. Generate visualizations (e.g., radar for features, bar for score).

Step 5: Output Decision

IF $\text{trust} \geq 7$: Flag as "High Trust (Strong Policy Alignment)" with delta from baseline.

ELSE: Flag as "Low Trust (Risk of Skepticism)" and suggest improvements (e.g., boost transparency).

Display metric, charts, and save to CSV if survey mode.

End.

1.4 Different Approaches to Technology Governance Across Regions

Approaches to governing modern technologies vary widely across different parts of the world. These differences arise from each region's political structure, legal system, economic goals, and social values. As a result, the way technologies are regulated, introduced, and accepted by the public also differs, which directly affects how much people trust and adopt them.

In Europe, governance is strongly focused on protecting individual rights and ensuring that systems are designed with people at the center. There is a clear emphasis on transparency, fairness, and accountability, supported by strict rules and enforcement measures. Regular risk assessments, requirements for human involvement, and well-defined legal responsibilities help strengthen confidence among citizens.

In contrast, the United States takes a more flexible and innovation-driven approach. The focus is on encouraging growth, competition, and technological advancement, often through guidelines rather than strict laws. While this supports rapid development, it can also lead to differences in how systems are implemented, which may affect how much people trust them in different areas.

China follows a more centralized model, where development is closely guided by national priorities. Strong government involvement allows for efficient implementation and large-scale deployment, especially in public services. However, less emphasis on transparency and individual rights means that public confidence is often based more on how effective the systems appear rather than on open participation.

Meanwhile, countries such as Singapore, Canada, and Australia are working towards a balanced approach. They aim to support innovation while also maintaining ethical standards and safeguards. By involving different stakeholders and using flexible regulatory methods, these regions try to create systems that are both practical and responsible, helping to build a steady level of public trust.

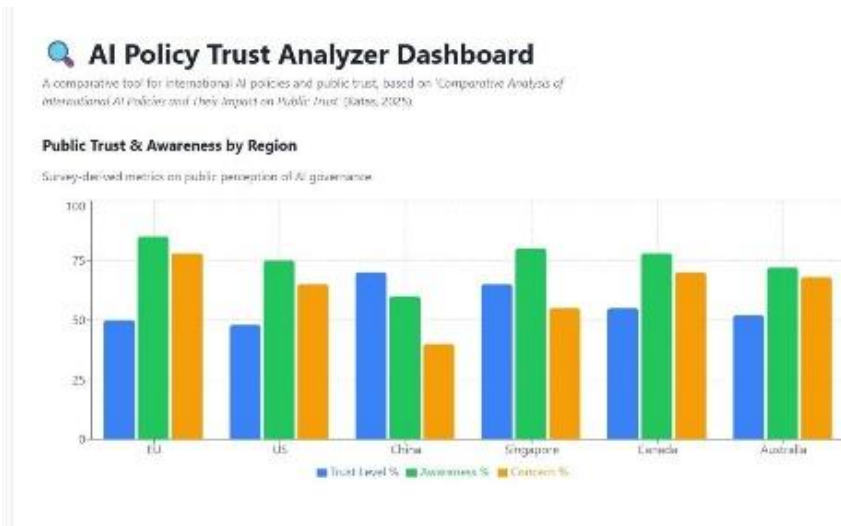


Fig 2: Analysis of Governance Strength and Trust Indicators by Region

1.5 Key Findings from the Analysis

The overall analysis shows a clear link between well-structured governance and the level of public confidence in technology. Regions that have clear, well-defined rules supported by strong ethical guidelines tend to gain greater acceptance from society. When policies are easy to understand and properly enforced, both developers and users feel more certain about how systems should be used, which creates a more stable and responsible environment.

Among all the factors studied, transparency and accountability stand out as the most important in building trust. People are more confident when they can understand how decisions are made and when there is clarity about who is responsible for those decisions. While fairness and efforts to reduce bias are also important, their impact becomes stronger only when supported by open processes and clear responsibility. In the same way, involving different stakeholders helps build trust, but only when this involvement is genuine and ongoing rather than occasional or symbolic.

The study also highlights the usefulness of simulation tools, such as the Policy Public Trust Analyzer, which help policymakers understand how different governance choices can influence public confidence. These tools allow decision-makers to test different scenarios and make improvements before applying policies on a larger scale. This approach helps in identifying potential risks early and adjusting strategies to achieve better outcomes.

Another important finding is the value of involving multiple stakeholders in decision-making. When policies are shaped through public discussions, expert input, and participation from civil society, they appear more legitimate and trustworthy. People are more likely to support systems when they feel that their voices are considered and that decisions are made in a fair and transparent manner.

The use of **simulation-based tools** emerges as a valuable contribution in understanding and improving governance strategies. These tools allow policymakers to test different scenarios and observe how changes in governance factors affect trust levels. This proactive approach helps identify weaknesses before policies are implemented on a large scale. It also supports evidence-based decision-making, where adjustments can be made based on predicted outcomes rather than assumptions.

1.6 Research Objectives and Contributions

This study focuses on understanding how governance practices influence public confidence by combining policy analysis, simulation, and quantitative evaluation into a single approach. Unlike traditional studies that examine these aspects separately, this research brings them together to provide a more complete understanding.

The first objective is to study and compare governance policies across different regions. Important frameworks and guidelines are examined to identify key factors such as transparency, accountability, fairness, and stakeholder involvement. These factors are then measured using a common scale so that comparisons can be made more effectively.

The second objective is to estimate public confidence using a simulation model called the Policy Public Trust Analyzer. This model calculates trust levels by giving more importance to factors like transparency and accountability, while also



considering fairness and stakeholder participation. The system is built using tools that allow real-time interaction and visualization, making it easier to understand how changes in policies affect trust.

The third objective is to test different policy scenarios. Users can adjust various governance factors and immediately see how these changes influence trust levels. The results of the model are consistent with existing research, showing that when transparency is reduced, public confidence also declines significantly.

The study also provides a comparison of governance performance across regions. It shows that regions with clear and enforceable rules tend to achieve higher levels of trust. Others that focus more on innovation or centralized control show moderate levels of trust, while regions that balance innovation with ethical considerations maintain stable and balanced outcomes.

Region	Transparency	Accountability	Fairness	Engagement	Trust Score
EU	9	9	8	7	8.0
US	6	5	6	5	6.5
China	5	8	7	4	7.0
Emerging Hubs	8	7	7	7	7.5

Table 1: Policy Features and Estimated Public Trust Scores Across Regions

1.7 Result and Analysis

The comparative results from the Policy Trust Analyzer show clear differences in how regions perform in terms of governance strength and public confidence. As shown in Figure 5, the European Union stands out with consistently high scores across all key areas, especially transparency and accountability. This can be linked to its well-defined and enforceable regulations, which follow a risk-based approach. Such structured policies help create a more reliable environment, leading to higher levels of public trust.

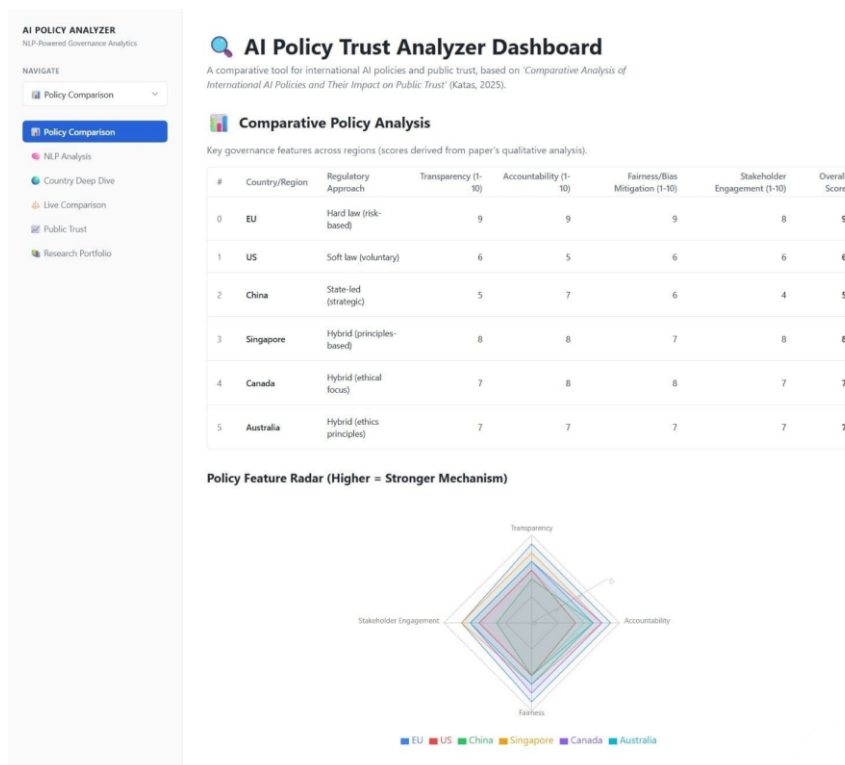


Fig 3: Multi-Dimensional Analysis of AI Governance Across Global Regions

The United States shows moderate governance performance, with lower levels of accountability and stakeholder involvement; although its strong focus on innovation supports rapid development and deployment, the reliance on



voluntary guidelines often leads to inconsistent outcomes and varying levels of public confidence across different areas. In contrast, China follows a more centralized approach, where strong oversight ensures accountability, but lower transparency and limited public participation affect how trust is built; despite fewer individual-focused safeguards, the effectiveness and scale of implementation help maintain a moderate level of public confidence. Meanwhile, countries such as Singapore, Canada, and Australia adopt a more balanced approach by combining innovation with ethical practices, resulting in relatively stable and consistent trust levels. Overall, the analysis highlights that transparency and accountability play the most critical role in shaping trust, as any reduction in these factors leads to an immediate and noticeable decline in confidence levels.

The diagram illustrates an interactive dashboard that is designed to analyze policy-related text and provide insights into how such content may influence public confidence and perception. At the top of the interface, there is a text input area where users can enter or paste any policy statement. In this case, the sample text focuses on promoting ethical practices, transparency, accountability, and data privacy, which are key elements of responsible governance. Once the text is submitted, the system processes it and generates multiple forms of analysis in a structured and easy-to-understand format. One of the main components of the dashboard is the sentiment analysis section, which evaluates the overall tone of the input text. The result is shown as neutral, indicating that the policy statement maintains a balanced and objective tone without expressing strong positive or negative emotions. This is further supported by a visual bar chart that displays the proportion of positive, neutral, and negative sentiments. Such a representation helps users quickly interpret the emotional tone of the content, which is important because neutral and balanced language is often associated with formal and policy-oriented communication.

Another important feature is the keyword extraction panel, which identifies and highlights the most relevant and frequently occurring terms in the text. Words such as “government,” “ethical,” “transparency,” “accountability,” and “privacy” are prominently displayed, showing that the policy is centered around governance principles and responsible practices. These keywords help users quickly grasp the main themes and priorities of the text without needing to read it in detail. The presence of such terms also indicates that the policy is aligned with widely accepted values related to fairness, responsibility, and data protection. The dashboard also includes a named entity recognition section, which is used to detect specific names such as organizations, locations, or individuals within the text. In this case, no entities are identified, suggesting that the policy statement is general in nature and not focused on any particular institution or region. This highlights that the content is more conceptual and applicable across different contexts rather than being tied to a specific case. Overall, the dashboard demonstrates how policy text can be analyzed in a systematic and user-friendly way. By combining sentiment analysis, keyword extraction, and entity recognition, it provides a comprehensive view of both the tone and the substance of the content. This kind of tool can be especially useful for researchers, policymakers, and analysts, as it allows them to evaluate how policies are framed, identify key focus areas, and understand how such communication might be interpreted by the public.

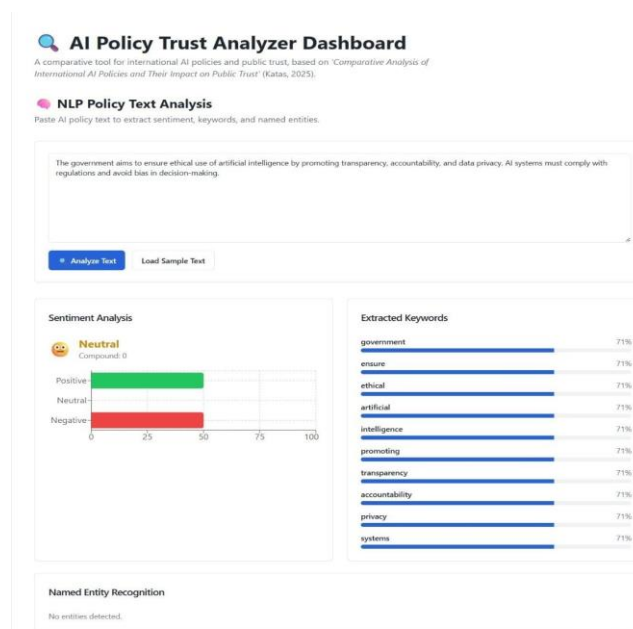


Fig 4: NLP-Based Sentiment and Feature Extraction Interface



The diagram shows an interactive dashboard that helps analyze policy-related text in a simple and structured way. At the top, users can enter any policy statement, which is then processed to understand its overall tone and key themes. In this example, the text focuses on responsible practices such as transparency, accountability, and data privacy, indicating a strong emphasis on ethical governance. The sentiment analysis section presents the overall tone as neutral, meaning the content is balanced and formal, which is typical for policy language; this is also reflected in the bar chart that shows a mix of positive and negative elements without strong emotional bias. Alongside this, the keyword section highlights the most important terms from the text, such as government, transparency, accountability, and privacy, helping users quickly identify the main focus areas without reading the full content in detail. At the bottom, the named entity recognition section shows that no specific names of organizations, people, or places are detected, suggesting that the text is general and not tied to any particular entity. Overall, the dashboard provides a clear and user-friendly way to break down policy text into meaningful insights, making it easier to understand its tone, focus, and potential impact on public perception.

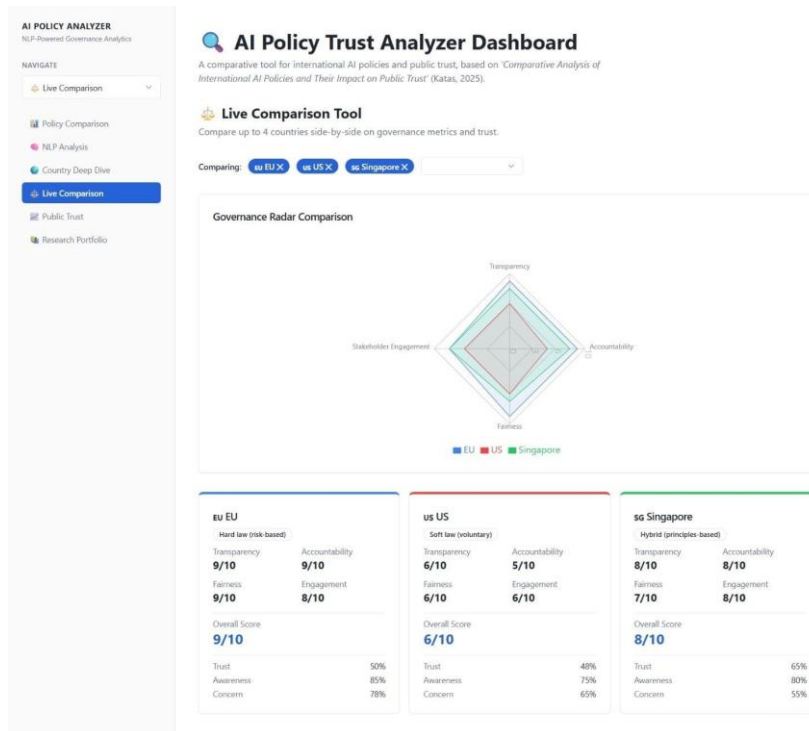


Fig 5: Comparative Radar Analysis of AI Governance (EU, US, Singapore)

The diagram presents a Live Comparison Dashboard that visually compares governance performance and public confidence across different regions, specifically the EU, US, and Singapore. The interface is designed to make comparison simple and intuitive, allowing users to evaluate multiple regions side by side using key governance factors. At the center of the dashboard is a radar chart, which provides a visual comparison of four important dimensions: transparency, accountability, fairness, and stakeholder engagement. Each region is represented by a different color, and the spread of each shape shows how strong or weak a region performs in these areas. The European Union displays a larger and more balanced shape, indicating consistently high performance across all dimensions. The United States shows a smaller shape, reflecting comparatively lower scores, especially in accountability and engagement. Singapore lies in between, with a more balanced but slightly moderate profile, suggesting a mix of strong governance and flexibility.

Below the chart, detailed scorecards for each region provide a clearer breakdown. The EU follows a strict, rule-based approach, scoring very high in transparency and fairness, which contributes to a strong overall score and higher public confidence levels. The United States adopts a more flexible, guideline-based approach, resulting in moderate scores and comparatively lower trust levels. Singapore uses a hybrid model, balancing structured governance with innovation-friendly policies, which leads to stable and relatively high scores.

The dashboard also includes indicators such as trust, awareness, and concern, offering deeper insight into public perception. For example, higher trust and awareness levels are seen in regions with stronger governance structures, while higher concern levels may reflect gaps in regulation or clarity.



II. CONCLUSION

The growing use of advanced technologies in governance makes it essential to strike a careful balance between encouraging innovation and protecting societal values and individual rights. This study shows that public confidence is not built only on how accurate or efficient systems are, but largely on how clearly they are governed and how well rules are defined and enforced. By examining key factors such as transparency, accountability, fairness, and stakeholder involvement, it becomes clear that people are more likely to trust systems when they understand how decisions are made, know who is responsible, and feel that their interests are being protected. The Policy Public Trust Analyzer introduced in this study offers a practical way to measure and compare trust across different policy environments, helping decision-makers better understand how governance choices influence public perception. It allows policymakers to test and refine their approaches using data-driven insights rather than assumptions. The findings strongly highlight that open and transparent governance, along with active participation from different groups in society, plays a major role in building and maintaining trust. In the long run, creating clear rules, ensuring accountability, and involving stakeholders continuously will be crucial for achieving responsible, ethical, and sustainable adoption of emerging technologies across the world.

The findings also make it evident that governance quality plays a central role in shaping public perception. Even highly efficient systems can face resistance if they are perceived as opaque, unfair, or poorly regulated. On the other hand, systems supported by clear guidelines and strong ethical practices tend to gain wider acceptance. Transparency helps remove confusion by making processes visible and understandable, while accountability ensures that there are mechanisms to address errors or misuse. Fairness ensures that outcomes do not disadvantage specific groups, and continuous stakeholder engagement allows people to feel included in decision-making processes rather than being passive observers.

The introduction of the Policy Public Trust Analyzer in this study provides a practical and structured way to assess and compare trust levels across different governance environments. By combining data analysis with interactive features, it allows policymakers and researchers to explore how changes in governance factors influence public confidence. This makes it possible to test different scenarios, identify weaknesses, and refine policies before they are implemented on a larger scale. Such an approach supports evidence-based decision-making, reducing reliance on assumptions and improving the overall effectiveness of governance strategies.

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