

Fujitsu Sentinel AI

Solutions for compliance
with the regulatory
framework for AI



Challenges of AI and Regulatory Compliance



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Home Office drops 'racist' algorithm from visa decisions

4 August 2020

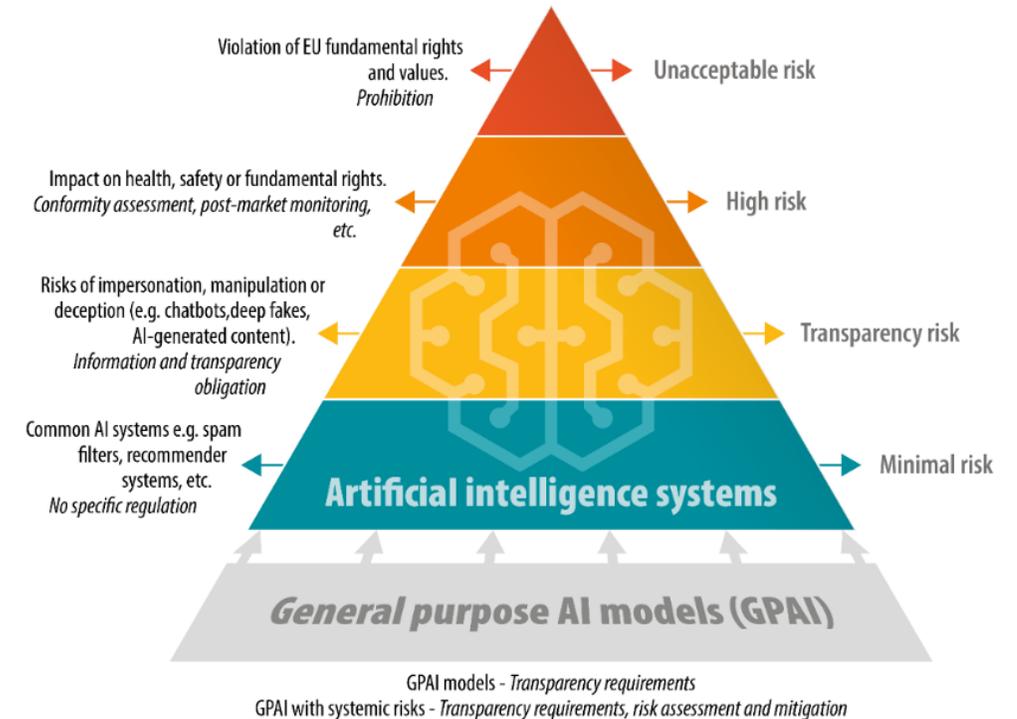
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What was the problem?

- **Bias Based on Nationality:** The system categorized applicants by nationality, with specific groups, especially from African and South Asian countries, flagged as "high risk."
- **Historical Prejudice Reinforcement:** The algorithm relied on biased historical data, which **unfairly** impacted certain nationalities.
- **Transparency Issues:** Limited public knowledge of the algorithm's criteria made it hard to challenge decisions.

EU AI Act risk-based approach



Source: EPRS European Parliamentary Research Service

Our commitment to the EU AI framework



Fujitsu is committed to help Europe! by simplifying compliance and building AI that is explainable, interpretable, and action-driven

Our support



CEN-CENELEC JTC 21 'Artificial Intelligence'



Our approach

Sentinel AI/ Trutworthy AI Services

Products	Services	
Sentinel AI	AI Knowledge Extraction Service	Explainable AI Service
	AI Anomaly Detection Service	Interpretable AI Services
	AI Recommendation Services	AI ESG Knowledge Extraction Service
	AI Predictive Service	

Further engagements:



Overview of Fujitsu Sentinel AI



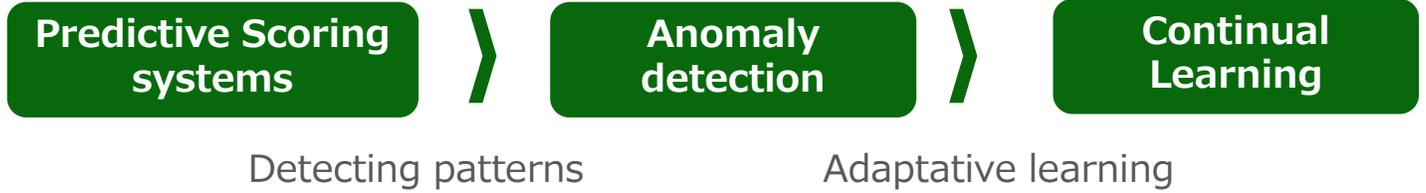
Fujitsu Sentinel AI (SAI) is an advanced AI platform developed by Fujitsu, designed to enhance operational efficiency, decision-making, and regulatory compliance across various sectors. With a focus on navigating the complex landscape of AI technologies, Sentinel AI incorporates Explainable AI (XAI) principles to foster **transparency, trust, and accountability** in AI-driven processes.

Key features

Transparency and accountability



Risk management and adaptation



What does it mean in practice?

Visa AI Monitoring

Search

Applicant ID: A0024 | Nationality: Nigerian | Age: 27 | Destination: USA | Visa AI Score: 85 %

AI Scores for VISA provision

Insights (Interpretability)

What factors are driven the AI Visa Score (eXplainability)

Interpretability

Recommended actions

Factor	Percentage
Financial Situation	6.1%
Travel History	4.99%
Purpose of Travel	2.39%
Supporting Documents	1.3%
Ties to Home Country	1.07%
Previous Visa Denials	6.28%
Health Concerns	6.71%
Travel Experience	8.39%
Duration of Stay	14.7%
Conflict Country	16.36%

The applicant demonstrates a stable financial situation, suggesting they can support themselves without relying on public funds during their stay. They also have a history of compliant travel, which indicates a likely adherence to visa rules and entry requirements. Additionally, the purpose of their visit is clearly defined, and they have provided comprehensive supporting documentation, showing preparation and credibility. Strong ties to their home country, such as family or stable employment, further support that the applicant is likely to return once their visa expires.

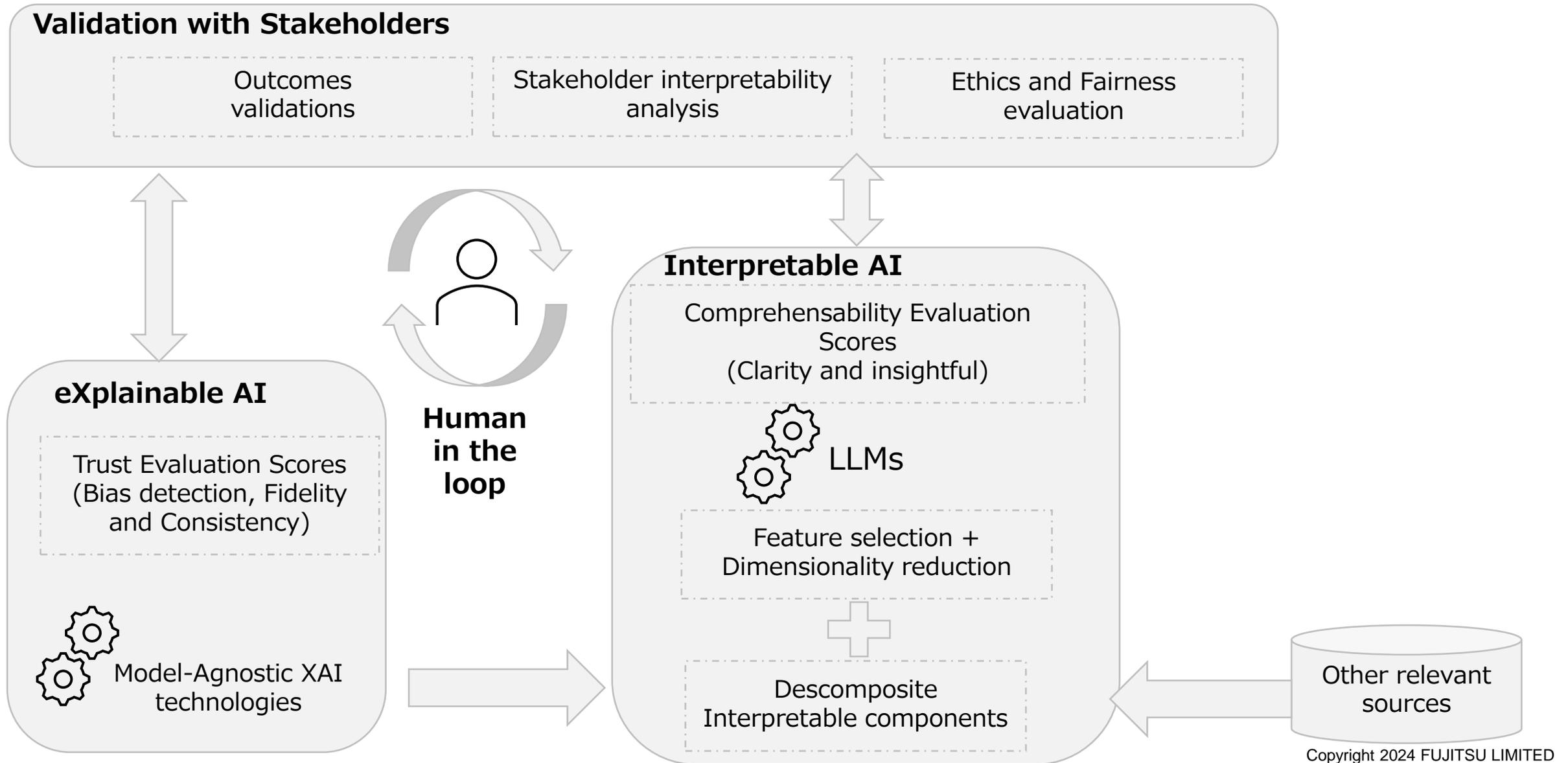
However, there are some concerns. The applicant has a record of a previous visa denial, which raises potential red flags. It would be important to review the reasons for the past denial and see if the applicant has addressed any issues that were previously identified. Minor health concerns also suggest the possibility of needing medical resources while abroad, so I would look for assurances that they can manage these independently. Additionally, the applicant's limited travel experience may indicate unfamiliarity with international visa requirements. Finally, the proposed length of stay seems extended, which could imply a higher risk of overstaying or attempting to settle.

Recommendations for Visa Approval Process

- Thorough Review of Previous Visa Denials:
- Evaluate Health Documentation:
- Analyze Travel History and Experience:
- Scrutinize Purpose of Travel and Duration of Stay:
- Verify Supporting Documentation:
- Assess Ties to Home Country:
- Consider Contextual Factors

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How do we ensure the Explainability & Interpretability? FUJITSU





Staying Compliant with the AI Act:

Following AI regulations is key to keeping AI safe and effective.



Our Solution:

Fujitsu Sentinel AI (SAI): Our innovative tools are here to simplify compliance and help build **trustworthy, easy-to-understand, and action-oriented AI.**



Exciting Future Ahead:

The future is bursting with potential for AI innovation, and we're excited to help shape it

Thank you



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