

AI Regulation in Finance

While firm regulations have not yet been finalized, financial regulators worldwide have provided guidelines and consultations on the responsible use of Artificial Intelligence/Machine Learning (AI/ML). What have they been saying? What common underlying concerns and regulatory themes are emerging? What can the industry expect in the coming years, and how can it start responding now?

Timeline of key regulator activity



Common regulatory themes



TruEra tracks and helps you prepare for emerging regulatory themes

8
12
NOV
2021

SINGAPORE
FINTECH
FESTIVAL

Codifying responsible AI

Winner

Explainability and Interpretability Activities with Regulators, Banks, and Government Agencies



- Response to multi-agency consultation and supervision on AI in banking
- Multiple engagements on Explainability
- Represented at AI Public Private Expert Forum (BoE)
- Joint working paper on TruEra's explainability technique (BoE)
- Co-leader of Veritas Industry consortium on AI governance (MAS)

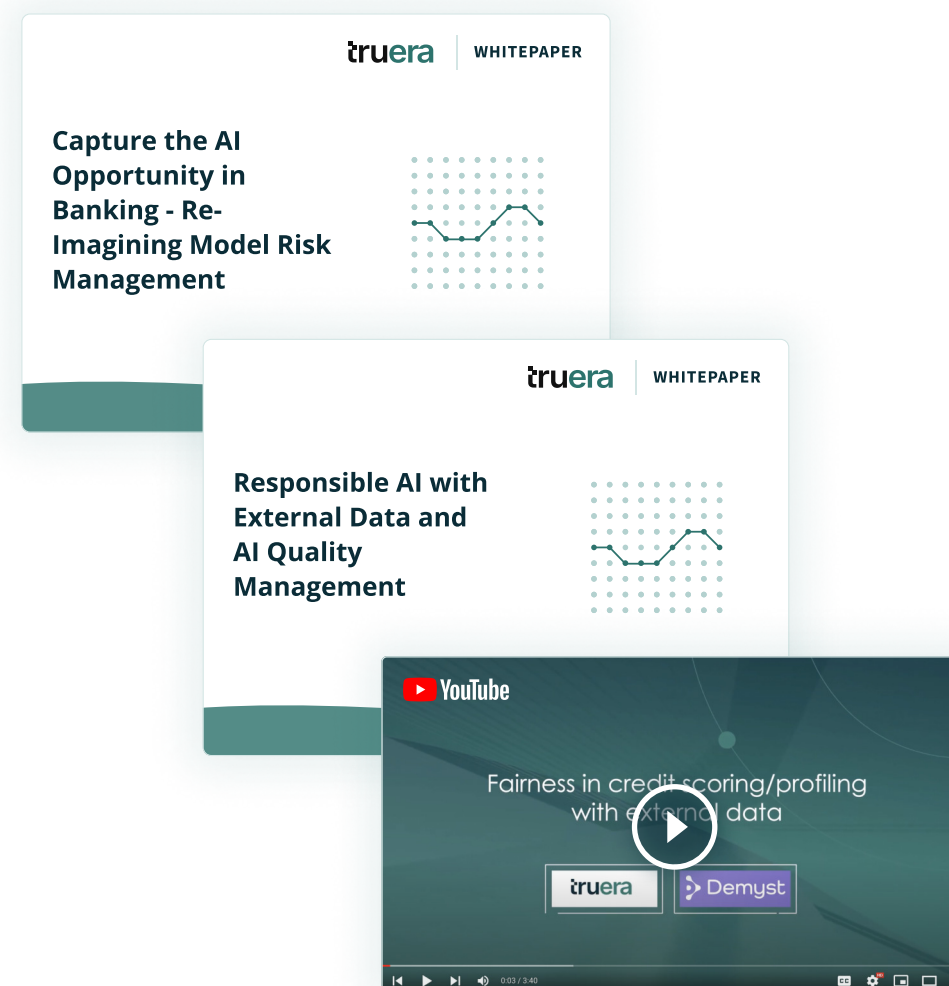


BANK OF ENGLAND



Monetary Authority of Singapore

In-depth Insights on AI for Financial Services



Client co-development

- Global Systemically Important Bank - Standard Chartered Bank - uses TruEra for Fairness and Transparency assessments
- Banking clients across UK, EU, and the US
- Insurance clients across Europe and the Americas
- Co-development in areas such as: Fair lending assessment (US); customer-facing transparency; off-the-shelf fairness reporting for auditability; and implementing model development best practices via TruEra.

Industry associations and publications

FINANCIAL TIMES

The Banker
GLOBAL FINANCIAL INTELLIGENCE SINCE 1926

AMERICAN BANKER

InsuranceERM
The online resource for enterprise risk management

insuranceday
Business intelligence

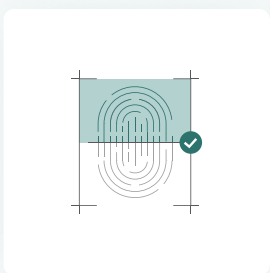
IIF
INSTITUTE OF INTERNATIONAL FINANCE

TruEra’s product support for regulatory themes



Explainability and Interpretability

- More accurate, reliable explanations
- Faster explanations
- Agnostic of the platform used to build the model (including third party models)
- Consistency/standardisation within and across data science teams
- Different views tailored to different stakeholders



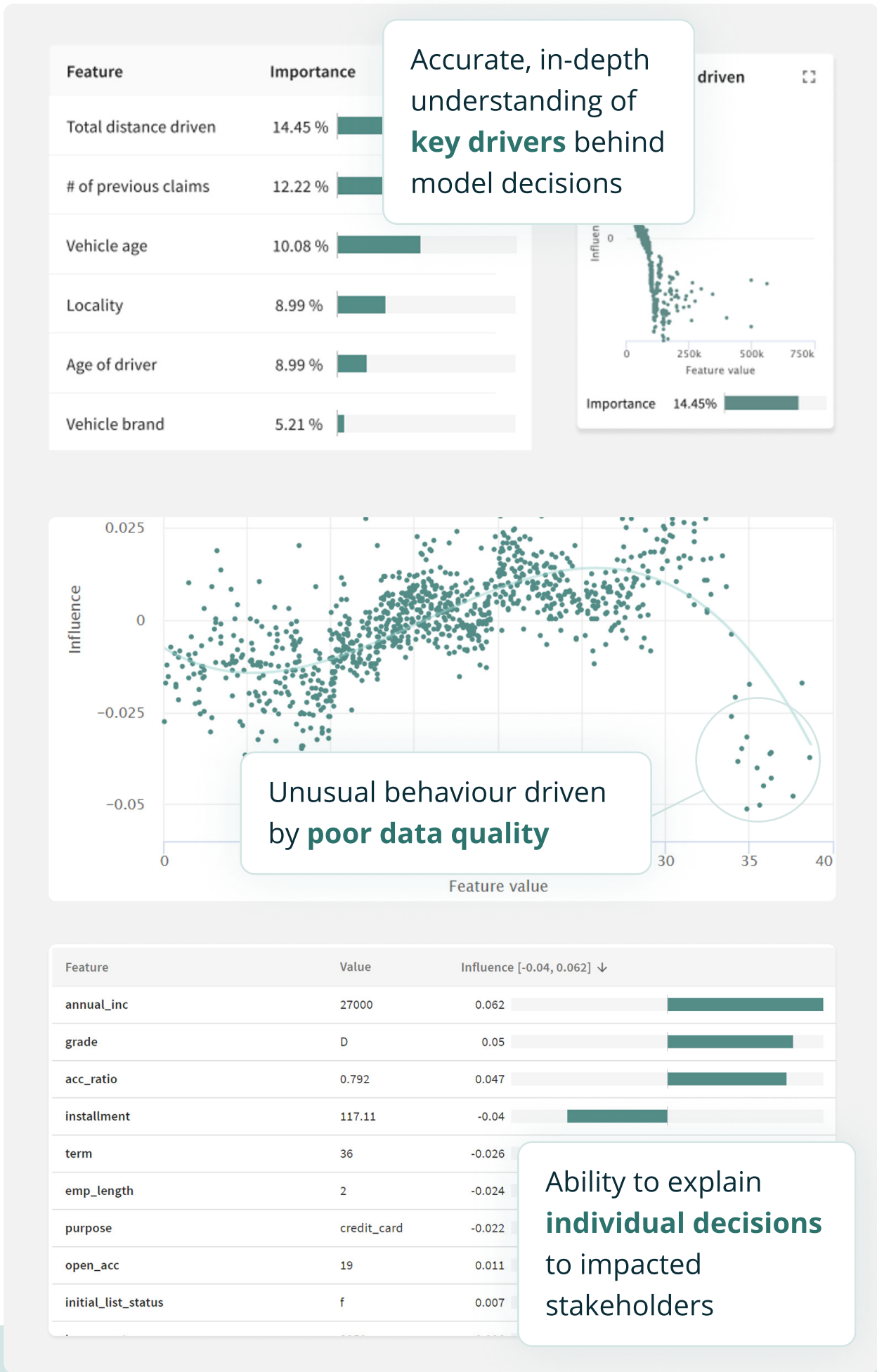
Justifiability and Conceptual Soundness

- Subject matter experts can use TruEra to analyze the relationship between model behaviour and input features
- Automated flagging of unusual feature influences that may require human investigation



Customer-Facing Transparency, Redress

- Customer or transaction-specific explanations
- Can be adapted for ‘layman-friendly’ explanations of decisions to end-customers
- Counterfactual explanations



TruEra's product support for regulatory themes (continued)



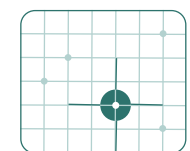
Fairness, Unjust Bias

- Ability to define different ways in which bias or group fairness is measured
- Ability to pinpoint root causes of bias
- Ability to assess accuracy-fairness trade-offs (after interventions) in a holistic manner



Robustness, Reliability, Stability

- Ability to identify instances of overfitting
- Ability to identify differences in model output between different data sets (training, test, OOT), and also over time in live models
- Ability to pinpoint root cause of stability/overfitting



Accountability

- Ability to compare different models and demonstrate that the best option was picked
- Ability to justify decisions with root cause analysis

