∆QUANTPI

Put your AI to the Test

Understand, enhance and trust the behavior of your AI systems through rigorous testing for unintended biases, robustness, compliance and other critical performance metrics

Challenges in AI Transformations

Al Lifecycle

How can I efficiently move my AI models from the validation phase into production?

Trust & Reputation

How can I ensure bias, fairness and robustness of my models to protect and win customer trust?

Procurement

How can I ensure the quality of AI systems I am buying? How can I benchmark vendors?

Regulatory Pressure

How can I get ahead of compliance demands without slowing down innovation?

Transparency

How can I understand and trust "AI blackboxes"?

Collaboration

How can I align cross-functional teams to work efficiently on Trustworthy AI?



Meet the QuantPi AI Trust Platform

Powered by a powerful AI testing engine, it rigorously assesses AI systems with scalable quality assurance tools and processes to support performance enhancements, compliance and governance needs.

CONTROL AND ENHANCE AI QUALITY

Easily integrate scalable and technical AI testing in your existing processes and governance structures to ensure AI systems behave as they should.

SCALE YOUR AI ADOPTION

Fast track and improve AI procurement, deployment and governance decisions with standardized and pre-configured overviews and documentation support.

WIN AND PROTECT CUSTOMER TRUST

Get ahead of regulations and operationalize internal requirements at scale to ensure trust in your AI systems with ready-to-use frameworks tied to automated tests.

Solution Deep Dive

The AI Trust Platform consists of three central product components that help you understand, enhance, and trust the behavior of your AI systems through rigorous testing for unintended biases, robustness, compliance, and other critical performance metrics.

PiCrystal



Al Hub

The Central Control Hub for your AI Portfolio

- Gain an overview of the progress of your Al transformation along with how compliant your Al systems are
- Perform risk classifications and accelerate validation and documentation across your AI portfolio
- Streamline your compliance process and get all stakeholders on the same page



Trust Profiles

The Framework for Operationalising Regulations
Translate regulations and standards into actions by assessing AI systems against requirements at scale
Fast-track procurement of third-party models via automated assessments
Leverage a growing catalog of out-of-the-box regulations and standards, and create your own Trust Profile based on internal guidelines

0	EU Artificial Intelligence Act Assess your Al system against requirements defined in the European Union's Al Act that follows a risk-based approach for transparency, accountability and human oversight.	
NST	NIST AI Risk Management Framework Follow NIST recommendations to incorporate trustworthiness considerations into the design, development, use, and evaluation of AI systems.	
Δ	QuantPi LLM Procurement Assess performance and transparency of large language models procured from third-party vendors against a set of metrics and controls predefined by QuantPi.	
IŜO	ISO/IEC 42001 - AI Management System Apply requirements for establishing and continually improving an AI management system within the context of your organization.	
۲	Criteria Catalogue for Al Cloud Services (AIC4) Adhere to requirements for the secure use of machine learning methods in cloud services defined by the German Federal Office for Information Security (BSI).	

Case Studies - Trustworthiness Assessments

Any AI model and system can be assessed with our model-agnostic testing engine PiCrystal, the following examples show how QuantPi performs Trustworthiness Assessments for NLP and Computer Vision use cases.

LLM Q&A

Performance

Is the question being answered correctly based on the given context?

Data Distribution

Is the data distribution in the evaluation dataset **representative**?

Robustness

Does the performance remain acceptable due to potential variations, e.g. how do **typos**, **translations or rephrasing** affect the model performance?

Bias/ Fairness

Is the performance deviation across certain data characteristics acceptable, e.g. **categories**, **length of the question** etc.

PEOPLE DETECTION

Performance

In which cases is the system able to accurately identify humans on images in which is it not?

Data Distribution

Is the data distribution in the evaluation dataset **representative**?

Robustness

Does the performance remain acceptable due to potential variations, e.g. how do **lighting conditions**, **blurring, smearing** conditions affect the model performance?

Bias/ Fairness

Is the performance deviation across certain data characteristics acceptable, e.g. **presence of an animal, gender, ethnicity, age**?

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