Responsible AI – (k)ein Widerspruch

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watsonx™

Der Titel heute ist Responsible AI - kannst du vielleicht kurz erklären was Responsible AI ist und warum wir Responsible AI brauchen bzw. für wen Responsible AI relevant ist ?

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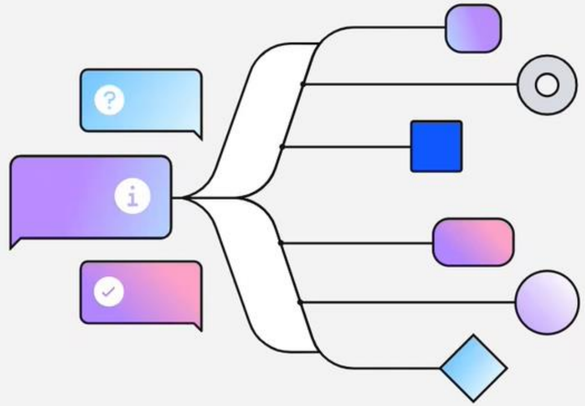

Sample questions

What are more efficient alternatives to a 'for loop' in Python?

What is the Transformers architecture?

Create a chart of the top NLP use-cases for foundation models.

Describe generative AI using emojis.

Type something...

Wie kann man also AI responsible machen ?

Das ist sicherlich sehr kompliziert ?

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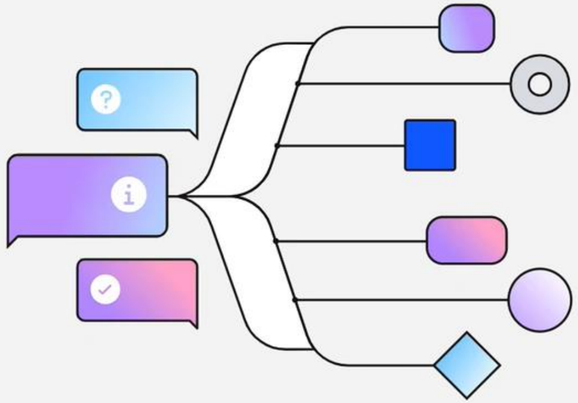

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Hilft der EU AI Act dabei AI Systeme noch vertrauenswürdiger zu machen?

Halte die Antwort bitte kurz.

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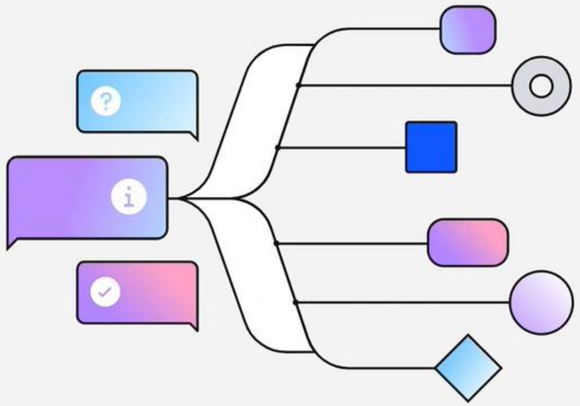

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Was sollten Juristen in Bezug auf den EU AI Act und AI Systemen besonders beachten?

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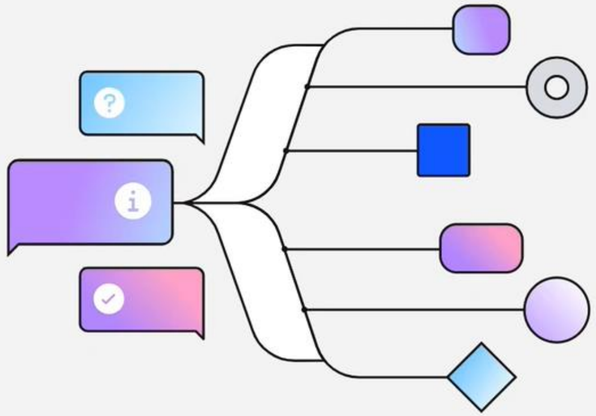

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EU calls for responsible development, and EY brings in the journey and frameworks to ensure AI systems are efficient, transparent and compliant

1 Risk-Classification

To-Dos

- Identify AI tools within your company based on AI Acts AI definition
- Classifying risk according to the AI Act (low, medium, high-risk, prohibited)
- Classifying AI models regarding other risk factors like business impact

Accelerator

Use EY's Online Questionnaire For Risk categorization

2 AS-IS Analysis

- Analysis of Roles & Responsibilities regarding efficiency & compliance
- Analysis of AI Procedures regarding efficiency & compliance
- Technical Analysis of AI models:
  - Data Quality & Reprocessing
  - Validation & Testing Mechanism
  - Model Explainability & Interpretability

Using EY's AI Maturity model for assessing current status

3 To-Be Definition

- Introduce specific requirements for high-risk models
- EY's North Star:
  - Roles & Responsibilities (RACI-Matrix)
  - Procedures for the AI Lifecycle (AI Procedure)
  - Technical solution (Confidence-Index)

EY's RACI Matrix

EY's AI procedure

EY's Confidence-Index

4 Roadmap

- Developing a Roadmap for closing identified gaps, including timelines and milestones
- Defining short-term and long-term actions to address immediate needs
- Resource planning to determine the required FTEs for both short-term and long-term efforts
- Training for ongoing improvement of the whole AI Lifecycle

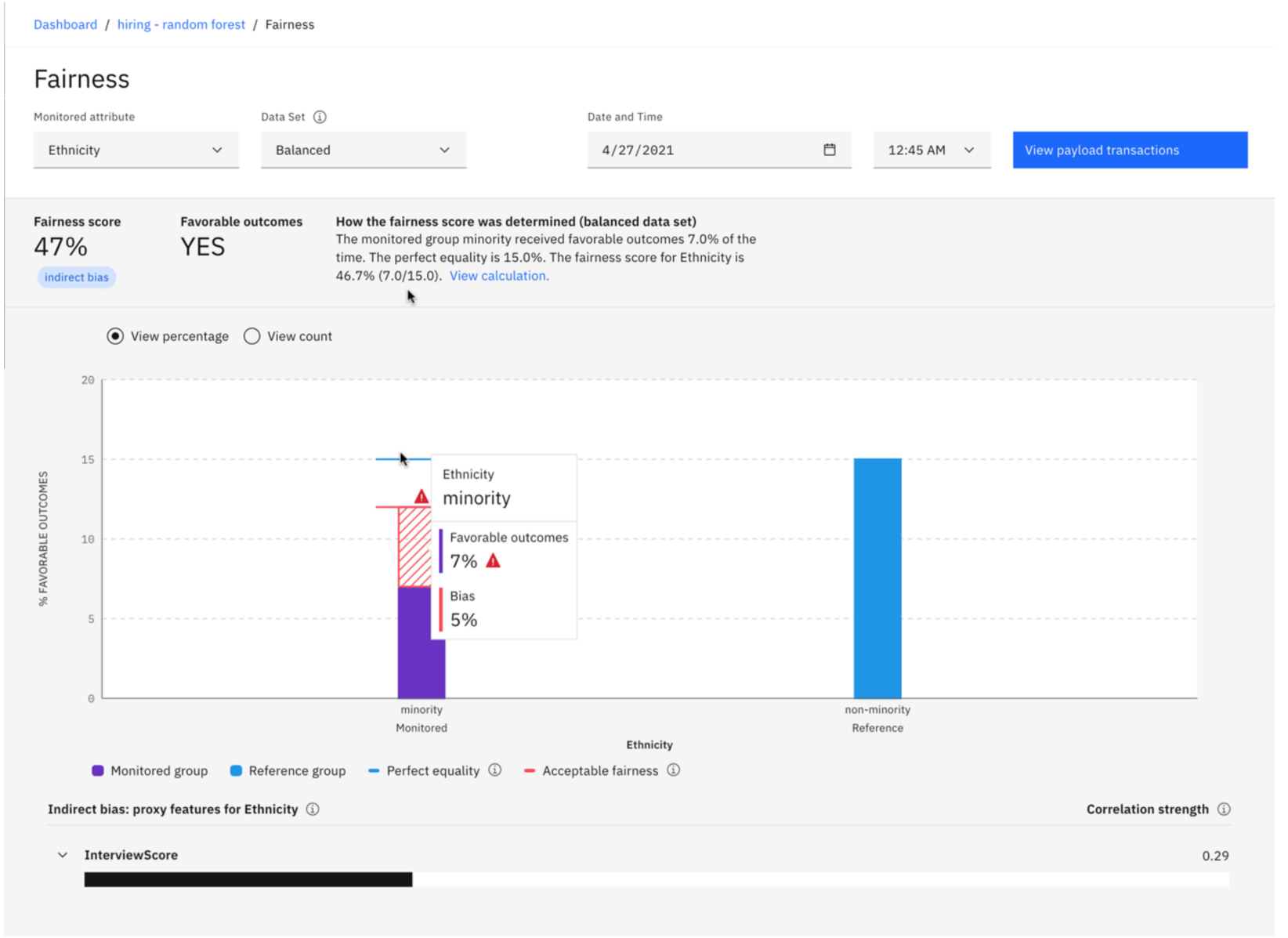
EY's Action & Resource Plan Framework includes Short-Term & Long-Term Actions & Resource Planning

Bias detection

Ensuring fairness in model scoring

Continuous calculation of model fairness

- Analyze deployed model predictions for bias
- Collect and aggregate bias data for dashboards and alerts
- Find non-feature data correlations
- Use a corrected model for “de-biased” predictions



Model Explainability

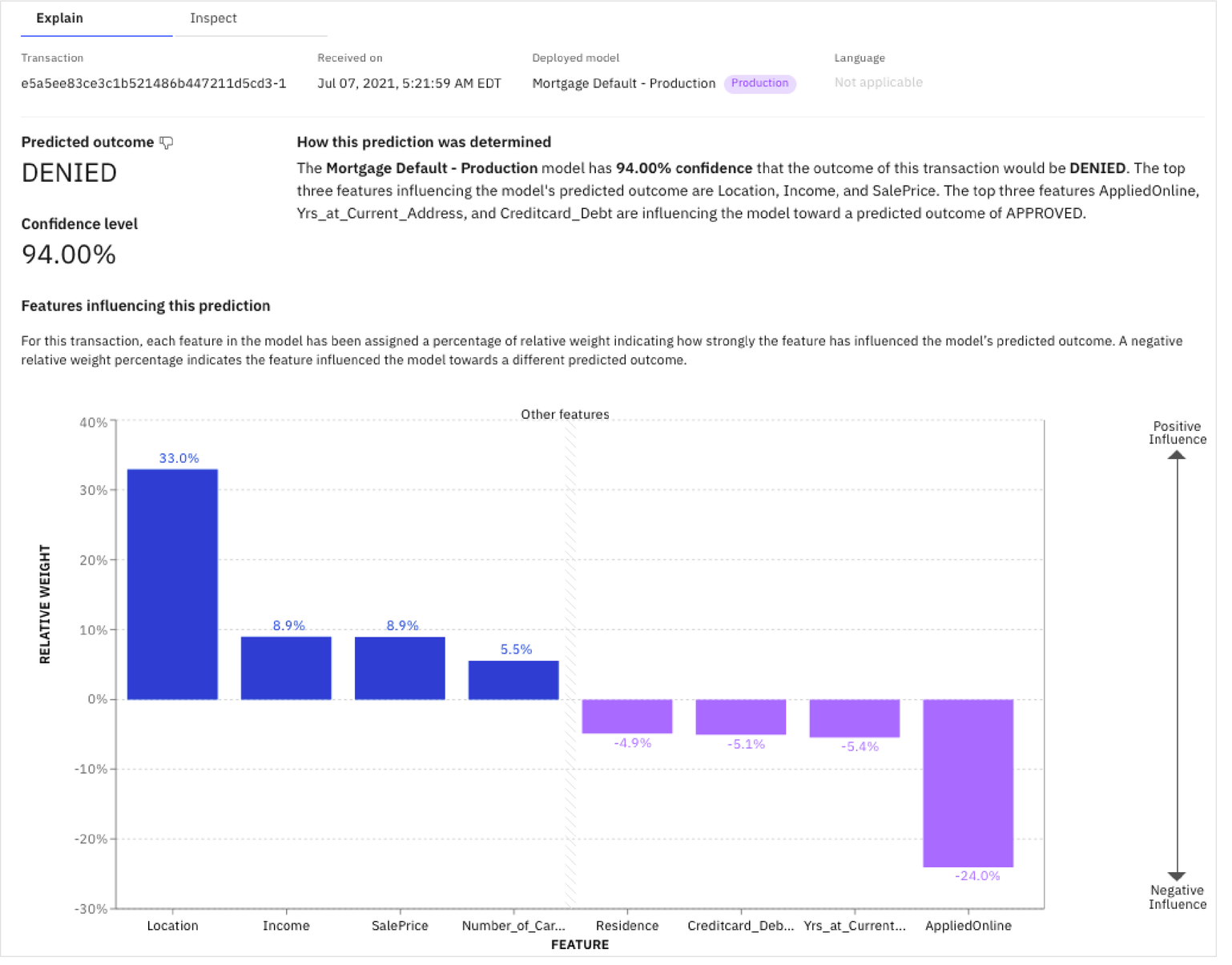
Explain model predictions

- Show the most influential features
- Explain in natural language
- Available API for prediction explanations

What-if analysis

- Experiment with values
- Assess effects of changes to features

Understand model outcomes



Drift detection

Handle changing scenarios

Measure the degree to which a model has moved away from reality

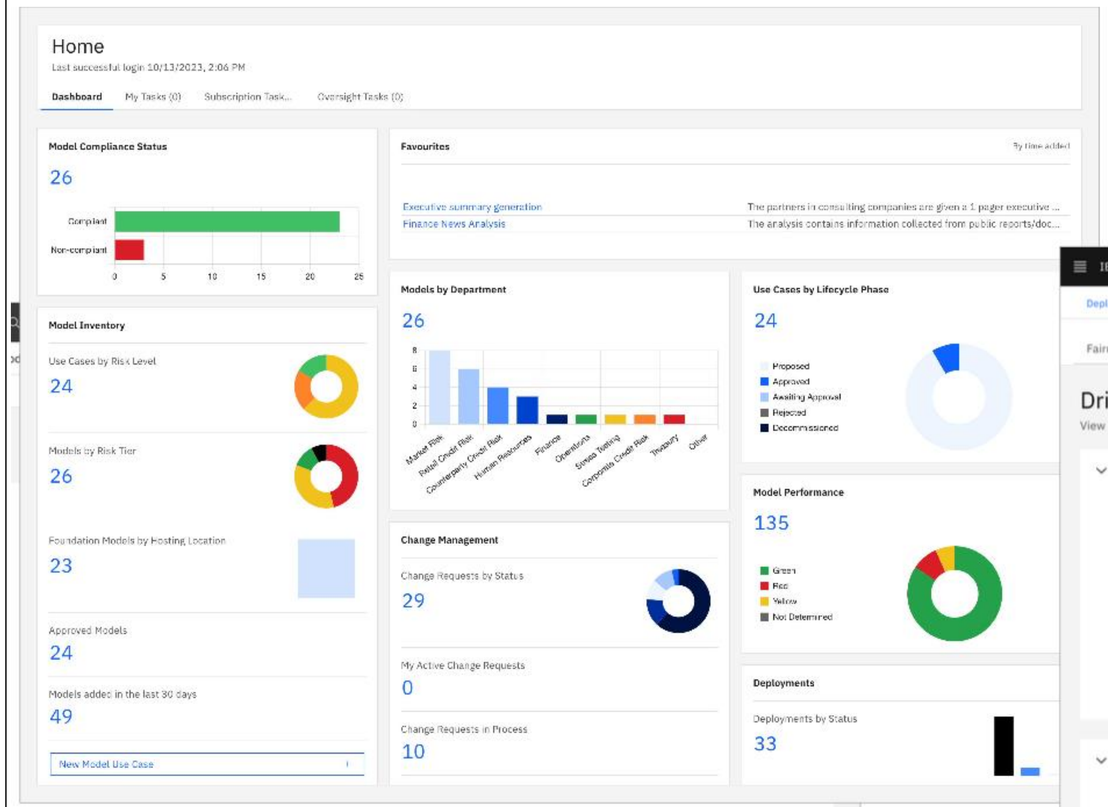
- Drop in accuracy – reality has changed, as shown by the scoring data
- Drop in consistency – reality is the same, the events vary

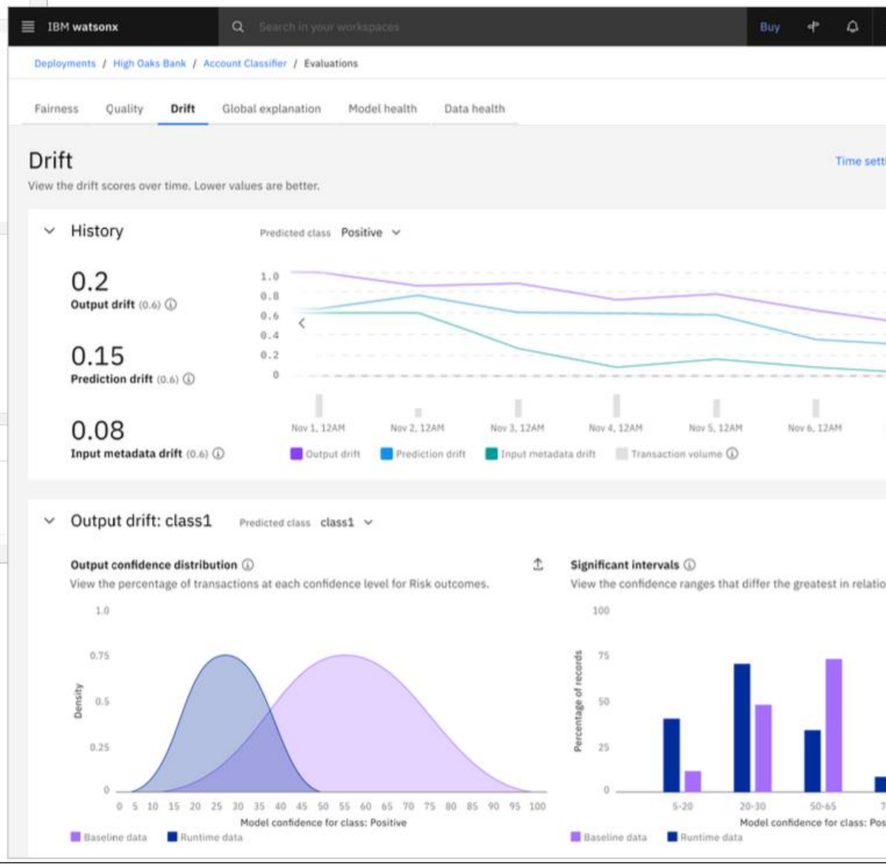
Drift monitoring and alerts

- Degradation of model performance can trigger retraining and redeployment

Manage risk across the enterprise with IBM

- Consistent holistic views of risk and compliance
- Drive GRC adoption
- Embedded self-service reporting, analytics, and dashboarding





Thank You

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