



AI Tools for Retailers: Assessment Sheet

Disclaimer: The assessment was conducted in the scope of the *Increasing the Uptake of Al in Retail (INAIR)* project, which received funding from the European Union's Horizon Europe Research and Innovation programme - Grant Agreement No. 101133847. Views and opinions expressed are those of the authors only and do not necessarily reflect those of the European Union or the European Health and Digital Executive Agency (HADEA). Neither the European Union nor the granting authority can be held responsible for them. The assessment of the tools was conducted based solely on vendor documentation accessible at the time of review. The project consortium does not guarantee the accuracy, completeness, or reliability of the information and assumes no responsibility for any decisions or actions taken based on this assessment.

Acknowledgment: The methodology used to evaluate this tool was adapted from the Al Trustworthiness Framework developed by the consortium of the STAR project (Horizon-2020-funded project, Grant Agreement No. 956573). The Framework is based on the Assessment List for Trustworthy Al (ALTAI), created by the High-Level Expert Group on Al established by the European Commission.

SOLUTION	Drift
PROVIDER	Salesloft
WEBSITE	https://www.salesloft.com/platform/drift
STRENGTHS	
AREA	CHARACTERISTICS

Human Agency & Oversight

- There are clear policies and guidelines for human oversight, outlining when and how human intervention is required during the operation of the Al system.
- The system provides explanations for its decisions in a human-understandable manner.
- The system is designed to include humans in the decision-making process.
- Human oversight is employed to review and correct potential biases.
- There are established review panels or teams consisting of experts and stakeholders that periodically evaluate AI decisions and make necessary adjustments.
- Users can customise Al behaviour within certain limits, enabling them to align the system with their values and intentions.
- The system adheres to ethical Al frameworks and principles (e.g., IEEE 7000).

Technical Robustness & Safety

- The training dataset is augmented with diverse and challenging examples to expose the model to a wider range of scenarios.
- Predictions and decisions from multiple models are combined to reduce the impact of errors and increase robustness.
- Features are carefully selected or engineered to make the model more resilient to variations and adversarial input.
- The system uses loss functions that are less sensitive to adversarial inputs, such as robust variants of cross-entropy loss.
- The system employs explainability to gain insights into model decisions and identify potential issues or adversarial attacks.
- The system is subject to security audits to identify vulnerabilities and potential attack vectors.
- The system monitors Al system behaviour and performance towards responding to any issues or adversarial attacks nearly in real time.
- The system is deployed in a secure environment, and access to the model and data is restricted.
- The system encrypts data at rest and in transit using strong encryption algorithms.
- The system implements robust access controls to restrict who can access the Al system and what actions they can perform.
- The system employs the principle of least privilege, ensuring that users and processes have the minimum level of access necessary.





- The system employs strong authentication methods, such as multi-factor authentication (MFA).
- The system remains up-to-date with respect to security patches and updates.
- The system is integrated with intrusion detection and prevention systems that monitor network traffic and detect and block suspicious activities.
- There are regular security audits and vulnerability assessments associated with the systems and the infrastructure that supports its operation.
- Firewalls and network segmentation are used to isolate the Al system from other parts of the network.
- There is a comprehensive incident response plan in place that outlines how to detect, respond to, and recover from cybersecurity incidents against the Al system.
- The system incorporates security considerations from the early stages of its development in-line with "security by design" approaches.
- There are regular security processes in place, including penetration testing, vulnerability scanning, and code reviews.

Privacy & Data Governance

- The system operates based on inherently interpretable algorithms (e.g., decision trees, linear models, rule-based systems).
- The system leverages specialized XAI techniques and tools to explain complex AI models that operate as black-hoxes
- The system provides visualizations illustrating how the model processes data and arrives at conclusions.
- The system provides natural language explanations.
- The system provides sensitivity analysis demonstrating how input data changes affect the model's output.
- The system is accompanied by educational materials and resources that help users understand Al concepts and interpret model outputs.
- The system collects data based on the data minimization principle, i.e., it collects only the data necessary
 for the Al system's intended purpose. No sensitive or personal information that is not directly relevant to
 the operation of the Al system is collected.
- Data collection is based on informed consent, i.e., personal data is collected only after obtaining informed consent from individuals to ensure that they understand how their data will be used and for what purposes.
- During data collection the system uses encryption techniques (e.g., SSL/TLS) when transmitting data over networks to prevent interception and eavesdropping.
- Data at rest is encrypted using strong encryption methods to protect it from unauthorised access in storage.
- The system implements access control policies to limit who can decrypt and access the data.
- The system implements role-based access control (RBAC) and least privilege principles to restrict data access to only those who need it for their specific roles.
- Data is regularly backed up, and the backup copies are encrypted and stored securely.
- Data retention policies have been developed and enforced to determine how long data is stored, while no longer needed data is deleted.
- The system implements robust logging and monitoring systems to track who accesses the data and what changes are made.
- Access to data is monitored continuously to identify potentially malicious and/or suspicious activities.
- The system classifies the various data assets based on their sensitivity and importance while applying appropriate security measures to each classification level.
- Data access and usage are regularly audited to ensure compliance with privacy and security policies.
- When sharing data with third parties or between systems, secure methods such as secure APIs and encrypted file transfers are used.
- There are established ethical guidelines for data handling and use to ensure the behaviour of the Al system aligns with ethical principles and regulations.
- Users are educated about data privacy and security best practices as part of measures to promote a culture of security within the organisation.
- There is a comprehensive incident response plan to address data breaches or security incidents promptly.
- The system adheres to applicable data protection regulations (i.e., GDPR) and relevant industry-specific standards, while data policies and procedures have been updated to meet compliance requirements.
- There are clear and well-defined guidelines for data collection.





- Data cleaning processes are in place to remove duplicate records, correct inaccuracies, and handle missing data.
- Data are verified for accuracy and reliability based on proper checks that identify anomalies or errors.
- There are data quality metrics defined and regularly measure and monitor data quality against these metrics.
- Their system employs bias mitigation measures, especially for sensitive attributes.
- Data retention and data disposal policies are in place to ensure efficient and secure data management.
- Data is backed up regularly to prevent data loss due to accidental deletions or technical issues.

Transparency

- The system employs XAI techniques (e.g., LIME, SHAP) to interpret decision-making processes and make them more understandable to humans.
- The system uses feature importance analysis to identify which factors or features the Al model relies on the most when making decisions.
- The system is accompanied by visual representations of the Al model's internal processes to explain complex models to non-technical stakeholders.
- The system complies with applicable and emerging regulations, such as the GDPR, the Al Act and industry-specific standards.
- The system operates based on inherently interpretable algorithms (e.g., decision trees, linear models, rule-based systems).
- The system leverages specialized XAI techniques and tools to explain complex AI models that operate as
- The system provides visualizations illustrating how the model processes data and arrives at conclusions.
- The system provides natural language explanations.
- The system provides sensitivity analysis demonstrating how input data changes affect the model's output.
- The system is accompanied by educational materials and resources that help users understand Al concepts and interpret model outputs.
- The purpose, scope, and key objectives of the AI system are properly documented.
- There is adequate documentation about the algorithms, models, and techniques used in the Al system.
- There is documentation of all data sources used by the systems, including information about their types, formats, and how they are accessed or collected.
- There is documentation about all data pre-processing steps, including data cleaning, normalisation, and feature engineering.
- There is documentation about the evaluation metrics used to assess model performance.
- There is documentation for the APIs used to interact with the AI system, including input and output formats.
- There is detailed documentation about how the Al system complies with relevant regulations and ethical quidelines, including the GDPR, the Al Act and the guidelines of the HLEG.
- There is adequate documentation of the measures taken to protect user data and ensure data privacy (e.g., encryption and access controls).
- There is version control for the system's documentation.
- The documentation is accessible to all relevant stakeholders, including developers, users, and compliance
 officers.
- The system includes legal disclaimers, terms of use, and licensing information.

Diversity, Non-discrimination & Fairness

- Collection of diverse and representative training data to reduce bias during Al system training and development.
- Generation of synthetic data to increase the diversity of the datasets used for the system's training.
- Standardisation and normalisation of data to mitigate the influence of outliers.
- Implementation of fairness-aware machine learning algorithms (e.g., adversarial training) that consider fairness constraints during training.
- Analysis of the model's sensitivity to different features or groups to detect and correct bias.
- Application of algorithms that adjust the predictions or decisions post-training to reduce bias.
- Specification and use of classification thresholds to achieve fairness (e.g., equal false-positive rates for different groups).
- Bias auditing by external organisations or experts.





- Support for explanations for decisions to allow for external scrutiny.
- Collection of user feedback to identify and address bias in Al systems.
- Promotion of diversity in Al development teams to reduce the risk of unintentional bias.
- Education and training about bias, fairness, and ethics to Al developers and other stakeholders.
- Model development is driven by clear and measurable fairness metrics, such as equal opportunity, demographic parity, and predictive parity.
- The system has incorporated fairness constraints during model training to ensure that the model's output adheres to fairness objectives.
- The system's model(s) are trained using adversarial networks to make them resistant to adversarial attacks and to improve fairness.
- Al system outputs are continually monitored for fairness, and corrective actions are taken if needed.
- There is diversity in Al development teams to bring a wide range of perspectives and reduce the risk of unintentional bias.

Environmental & Societal Well-being

- The system has been developed in line with a set of ethical Al development principles that align with retail industry standards.
- The system has been developed and deployed in line with a comprehensive code of conduct that outlines the organisation's ethical principles for Al development.
- The development and operation of the system are overseen in terms of ethical and responsible Al principles by an Al ethics committee or advisory board.
- The system is developed, deployed and operated in ways that are up-to-date with relevant laws and regulations governing Al and retail.
- Any Al components and technologies used in the system meet ethical standards, including labour practices and environmental responsibility.
- There are mechanisms for individuals to report ethical concerns and violations related to Al systems without fear of retaliation.
- The development and operation of the system consider environmental ethics in Al strategies towards reducing the environmental impact of Al.

Accountability

- The system maintains audit trails i.e., detailed records of its activities, including data inputs, model parameters, and decision outputs.
- The system supports model versioning i.e., it keeps track of different versions of Al models, along with the changes made to each version.
- The system records the explanations and interpretations generated by the Al system for specific decisions, including information about the reasons behind the system's choices.
- The system enables associating every action or decision made by the Al system with a timestamp, allowing for temporal tracking and analysis.
- The system maintains user interaction logs, i.e., records of interactions between users or operators and the Al system.
- The system maintains error and exception logs that record cases where the Al system diverges from expected behaviour.
- The system documents the process of training data annotation, including the actors involved, the annotations provided, and any guidelines provided to human annotators.
- The system comes with model validation reports i.e., records of model validation processes such as testing, validation datasets, and evaluation metrics used to assess model performance.
- The system supports change management processes, which ensure that any changes made to the Al system's configuration, code, or parameters, along with the rationale for these changes.
- There are training and certification records for the personnel involved in Al system development and operation, including information on their roles and responsibilities.

Assessed by: TEAM4Excellence