



AI TOOLS FOR RETAILERS: ASSESSMENT SHEET

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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	Xselico (eDesk)
PROVIDER	xSellco Limited
WEBSITE	https://www.xsellco.com/
	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 AI system. There are triggers or thresholds that prompt human intervention when certain conditions are met or when certain risks are materialised. The system is designed to include humans in the decision-making process. Human oversight is employed to review and correct potential biases. There are feedback mechanisms for end-users to report concerns or disputes, which can trigger human review and intervention. There are established review panels or teams consisting of experts and stakeholders that periodically evaluate AI decisions and make necessary adjustments. Users can customise AI behaviour within certain limits, enabling them to align the system with their values and intentions. The system adheres to ethical AI frameworks and principles (e.g., IEEE 7000).
Technical Robustness & Safety	 Features are carefully selected or engineered to make the model more resilient to variations and adversarial input. The system uses data pre-processing techniques to remove noise and irrelevant information that might make the model more susceptible to adversarial inputs. The system is subject to security audits to identify vulnerabilities and potential attack vectors. The system is deployed in a secure environment, and access to the model and data is restricted. 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 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 users of the system are trained on security best practices such as how to identify and report phishing and other social engineering attacks. 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 collects data based on the data minimization principle, i.e., it collects only the data necessary for the AI system's intended purpose. No sensitive or personal information that is not directly relevant to the operation of the AI 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. Data collection anonymizes or pseudonymizes data whenever possible. This includes the removal or encryption of personally identifiable information (PII) to protect individual identities. During data collection the system uses encryption techniques (e.g., SLI/TLS) when transmitting data over networks to prevent interception and eavesdropping. The AI system ensures data quality during data collection by validating, cleaning, and sanitizing incoming data to reduce errors and inaccuracies. Data at rest is encrypted using strong encryption methods to protect it from unauthorised access in storage. 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 dassifies the various data assets based on their sensitivity and importance while applying appropriate security measures to access role between systems, secure methods such as secure APIs and encryptef file transfers are used. There a





	 metrics. Their system employs bias mitigation measures, especially for sensitive attributes. The system documents metadata of the various datasets, including data sources, collection methods, and any pre-processing steps. 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 AI model relies on the most when making decisions. The system possesses user-friendly interfaces that provide insights into the AI system's behaviour and allow users to interact with the system while understanding its decision-making process. The system comes with auditing tools and dashboards allowing real-time AI system's behaviour and allow users to interact with the system while understanding its decision-making process. The system complex with applicable and emerging regulations, such as the GDPR, the AI Act and industry-specific standards. The system operates based on inherently interpretable algorithms (e.g., decision trees, linear models, rule-based systems). The system moders based on inherently interpretable algorithms (e.g., decision trees, linear models, rule-based systems). The system is variages specialized XAI techniques and tools to explain complex AI models that operate as black-boxes. The system movides explanations on a per-instance basis, which explains why the AI system makes a specific decision for a given input. The system provides estivity analysis demonstrating how input data changes affect the model's output. The system provides sensitivity analysis demonstrating how input data changes affect the model's output. The is documentation about all data pre-processing steps, including data cleaning, normalisation, and feature engineering. There is documentation about the Vaystem are properly documented. There is documentation about the valuation metrics used to assess model performance. There is documentation of the APIs used to interact with the AI system, including input and output formats. There is documentation about the valigu
Diversity, Non-discrimination & Fairness	 Collection of diverse and representative training data to reduce bias during AI system training and development. Standardisation and normalisation of data to mitigate the influence of outliers.





	 Adjusting the importance of data samples or features to give more weight to underrepresented groups. 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. Collection of user feedback to identify and address bias in Al systems. Education and training about bias, fairness, and ethics to Al developers and other stakeholders. Human reviewers and subject matter experts engage in the model development and evaluation processes. There are mechanisms for users to report and provide feedback on potential fairness issues.
Environmental & Societal Well-being	 The system has been developed in line with a set of ethical AI 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 AI development. The system is developed, deployed and operated in ways that are up-to-date with relevant laws and regulations governing AI and retail. End-users are educated and trained on AI ethics, privacy, and responsible use of the AI system. Any AI components and technologies used in the system meet ethical standards, including labour practices and environmental responsibility.
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 AI models, along with the changes made to each version. The system supports algorithm logging, i.e., it logs the specific algorithms and techniques used in the AI system. The system offers data provenance and traceability functionalities by documenting the origin and history of data assets, including their sources, transformations, and any pre-processing. The system enables associating every action or decision made by the AI 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 AI system. 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 offers security incident reports that provide information about security incidents, breaches, or attempts to compromise the AI system's integrity, along with responses and mitigation efforts.

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