Kitewcrks SOLUTION BRIEF

# Harnessing Al Evolution and Combating Data Leakage With Kiteworks



# The Evolution of AI and Emergence of New Data Threats

Artificial intelligence (AI), once a concept restricted to science fiction, has now blossomed into a technological marvel reshaping businesses and societies globally. As we progressed through the 2010s, deep learning breakthroughs became the catalysts, driving AI's rapid adoption across myriad industries. Today, AI technologies, ranging from predictive analytics to autonomous vehicles, stand testament to human ingenuity.

This meteoric rise of AI owes its momentum to three pivotal drivers:

- The Data Deluge: In a mere span of two years, humanity has generated more data than in all preceding years combined, providing vast training grounds for machine learning models.
- Computational Might: The advent of GPUs and bespoke AI chips has surged computational capabilities, facilitating the operations of intricate neural networks.
- Innovative Algorithms: Revolutionary algorithms, especially transformers, process massive data sets, setting new benchmarks in diverse tasks such as language processing, speech recognition, and image analysis.

Central to this AI revolution are large language models (LLMs), including stalwarts like OpenAI's GPT, Google's LaMDA, and Anthropic's Claude. Armed with billions of text parameters, these LLMs showcase human-paralleling capabilities in writing, query resolution, and document summarization.

Yet, for all its prowess, Al is not devoid of pitfalls. The very data empowering these models may also sow the seeds of risks. Comprehensive internet data ingestion might inadvertently introduce toxic content, personal data, copyrighted content, and other sensitive material into these models. Such scenarios evoke grave concerns regarding:

- Data Poisoning: Malicious data can compromise models, inducing biased outputs.
- Intellectual Property Concerns: Models might unintentionally reproduce copyrighted data.
- Data Leakage: Training data can accidentally surface through models.
- Reidentification Dangers: Model outputs could risk exposing individual identities.
- Bias and Discrimination: Legacy biases in training data might manifest as prejudiced predictions in models.

To truly harness Al's potential, organizations must not only celebrate its capabilities but also fortify against its inherent vulnerabilities.

## Managing Data Risks in Al Systems With Kiteworks

In this tumultuous landscape of Al innovation and its associated vulnerabilities, Kiteworks emerges as a beacon. Its platform is meticulously designed to arm organizations with the tools required to navigate Al's data security, privacy, and compliance intricacies.

### **Proactive Data Leakage Safeguards**

One of the most pronounced threats of LLMs is unintentional data leakage. Kiteworks takes a proactive stance:

- Content Monitoring: Regular scans of model outputs to preempt potential data leakage, encompassing sensitive documents, PII, PCI data, and specialized content types.
- Anomaly Surveillance: Persistent checks for model anomalies that hint at protected data extraction.
- Integrated DLP Systems: Seamless collaboration with established DLP systems like Symantec to isolate high-risk models.
- Data Watermarking: Imposing tracking indicators on documents to track and prevent data breaches.

Continuous oversight of AI systems under Kiteworks' watch ensures the utmost data protection.

### **Access Controls for Sensitive Data**

Controlling access to confidential data sets is paramount to prevent misuse. Kiteworks champions this cause through:

- Stringent Authentication: Ensuring data-set access is restricted to vetted data scientists.
- Refined Access Guidelines: Implementing granular controls on access levels.
- Thorough Auditing: Detailed logs for data access and usage.
- Instant Access Revocation: Swift action against unauthorized access or data misuse.
- Robust Encryption: Cryptographic measures to safeguard encrypted data.

Centralized access controls under Kiteworks ensure data integrity and confidentiality.

### **Upholding Regulatory Compliance**

Adherence to regulations, especially when handling sensitive data sets like healthcare records, is non-negotiable. Kiteworks provides:

- In-depth Audit Logs: Comprehensive documentation for data access and usage.
- Automated Policy Adherence: Customizable data management policies aligned with compliance mandates.
- Prompt Breach Alerts: Timely notifications for any unauthorized data access.

Kiteworks' meticulous auditing and controls drastically mitigate compliance-related risks.

The AI horizon promises vast opportunities, balanced by equally significant challenges. As organizations endeavor to leverage AI's unparalleled capabilities, Kiteworks stands as a trusted partner, ensuring that innovation is matched with security, privacy, and compliance. With Kiteworks, the future of AI is not only promising but also protected.

# **Kitewarks**

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