



Inpher XOR Platform

Unlocking Value and Secure Data Collaboration
Through Privacy-Preserving Machine Learning
and Analytics





Inpher XOR Platform

Industry's First Enterprise-Ready Privacy-Preserving Computing Platform Built for Data Scientists

THE ERA OF PRIVACY PRESERVING ML IS HERE

Enterprises are tapping into the power of ML for faster innovation and a competitive edge. Yet, increasing data privacy concerns and regulatory barriers hold them back from moving into the new era of intelligence, where data accessibility is the key to developing high - quality ML models.

Problem: The Paradox of AI and Data Privacy

AI and advanced analytics require easy access to data, whether across teams, geographies, or even across organizations. Unfortunately, too many AI initiatives are stalled due to stringent data privacy laws, organizational policies, and confidentiality concerns. Hence data science efforts become time - consuming, costly, and sometimes even impossible.

1

Fragmented data silos lead to lost insights. Unifying data takes weeks to months, and is often error - prone, resulting in privacy leakage.

2

Compromising model accuracy for data privacy. Existing approaches inject noise or eliminate critical features. Tradeoffs are expensive, especially for mission - critical apps.

3

Fines are no longer just monetary. Beyond negative reputation and lost customer trust, newer stringent laws mandate companies to purge valuable models and algorithms that violate privacy rules.

Gartner


By 2025, half of large organizations will implement privacy-enhancing computation for processing data in untrusted environments and multiparty data analytics use cases. Organizations should start identifying candidates for privacy-enhancing computations by assessing data processing activities that require transfers of personal data, data monetization, fraud analytics and other use cases with highly sensitive data.

XOR Platform Overview

XOR is a multi-tenant SaaS Platform that enables organizations to run secure analytics and ML algorithms across sensitive data silos and extract insights without compromising confidentiality and data privacy. XOR’s intuitive UI, Python library (XOR-py) and API integration deliver a role-based solution for data scientists, privacy engineers and technical leaders. The XOR Platform is available on AWS and GCP marketplace and integrates with organizations’ existing ML infrastructure and workflows on-prem or in the cloud. The auditable cryptographic protocols mathematically guarantee data privacy, security and residency compliance.






Trusted by Global Innovators



“Working with Inpher to leverage their technology to access non-public data sources aligns with our objective to enhance our informational edge and generate value for the CPP Fund over the long run. As some data sources become more mainstream, we seek to be a leader in finding and putting to work novel data that allow us to create differentiated insights”

**Daniel Wroblewski, Managing Director,
Alpha Generation Lab, CPP Investments**

Features and Benefits

	 Data Scientist	 Privacy Engineer	 Business Leader
Native Support for Machine Learning and Advanced Analytics	Build a variety of ML models out-of-box, including linreg, logreg, and decision trees	Embed privacy- by-design principles and mathematical proofs without becoming a cryptographic expert	Integrate with existing infrastructure tools and workflows to accelerate time to value
Quantum Resilient Encryption-In-Use	Build high precision models on sensitive data without comprising data usability (like dropping features or masking datasets)	Exceed data privacy requirements with encrypted computation while collaborating with data partners and safeguarding against quantum attacks	Innovate faster, discover new insights and unlock data monetization opportunities by leveraging sensitive data while preserving privacy and security
Enterprise Ready Solution	Build privacy preserving ML models without becoming a cryptographer all from familiar interfaces like Jupyter notebook using XOR Python library (XOR-Py)	Configure platform policies (such as data & function access controls, network config, etc.) and report detailed usage logs for proof of execution in a secure environment	Protect your business and customer data with a cryptographic technique that's recommended by global privacy and data regulators such as EDPB
Deploy Anywhere	Access sensitive data distributed across teams, geographies or organizations with simple API calls	Compliantly collaborate and leverage sensitive data from anywhere across jurisdictions; on-prem and cloud including trusted enclave environment	Unlock the value of sensitive data within and across organizations without moving it or trusting a third party
Advanced Entity Resolution	Build accurate models by accessing more features that were previously unavailable for data stored across different sources even when unique entity identifiers are not available	Empower data science teams to leverage more features and data while guaranteeing data privacy during data collaboration	Make better decisions by collaborating with other data providers without ever exposing data privacy

	XOR Trial	XOR Platform
Overview	Free Secret Computing environment for data scientists to learn and test scenarios with predefined datasets across representative example use cases	Production Secret Computing environment for organizations to use sensitive data across multiple privacy zones
Authenticated User Licenses	1	Starts with 10
XOR Machines <small>(Privacy Zones)</small>	3 (Simulated Privacy Zones)	Starts with 3 (Inpher hosted) & 2 (Customer hosted)
Applications	Inpher and Partner Published Use Cases	Prototype and Production Applications
Data	Test/ Kaggle Data	Private Data
Platform Policy Manager <small>(Access, Functional & Privacy)</small>	Preconfigured	Configurable
Support	Developer Documentation, Tutorials & Slack Community	Dedicated Technical, Analytics, Policy & Cryptographic Support
Developer Portal <small>(Unlimited access to videos, docs, guides and tutorial notebooks)</small>		
Web-based Analyst UI		
Python Notebook Integration		
REST API Integration		
Domain Specific Language		
Extensible Deployment		
Pricing	21-Days Free Trial with no Commitment	Contact Sales

