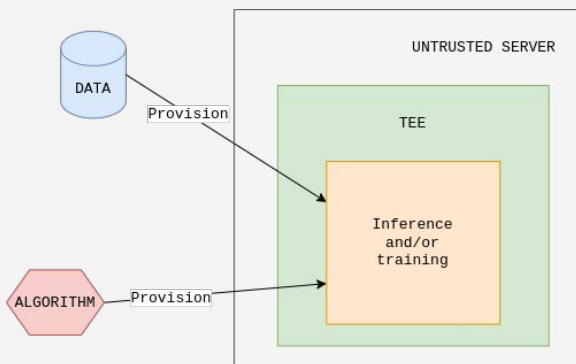

Prism AI

by Ultraviolet



Platform for Confidential Computing and Secure
Collaborative AI

Your AI is Now Protected!



Confidential Computing

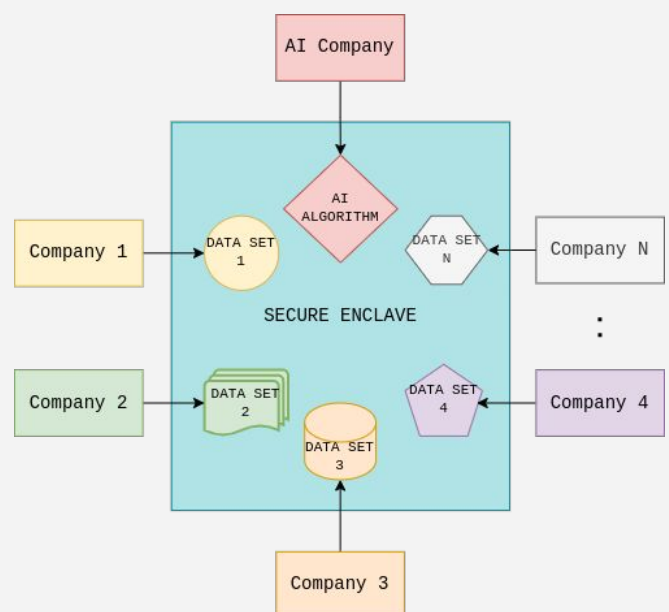
Confidential Computing and TEEs (Trusted Execution Environments) ensure data privacy and integrity by processing sensitive information in isolated and secure environments.

These technologies can **protect AI** by safeguarding data and algorithms during both model training and inference, preventing unauthorized access and tampering.

Prism AI Platform

Prism AI utilizes Confidential Computing and TEEs for secure execution of algorithms on combined datasets from multiple parties.

Data is protected by TEEs from everyone, including host and service providers, ensuring that participants cannot see each other's data; only the Result Recipient receives the processed results, with data never leaving the secure enclave and remaining invisible to participants throughout the computation.



Intuitive and Easy to Use



Prism AI

Logged-in to: Titan | admin

MANAGE

- Admin
- Users
- Dashboard

COMPUTATIONS

- Computations
- Backends

WORKSPACES

- Workspace
- Invitations

ACCOUNT








- Billing
- Support

Computations

Dashboard / Computations

New Computation

Items per page 10

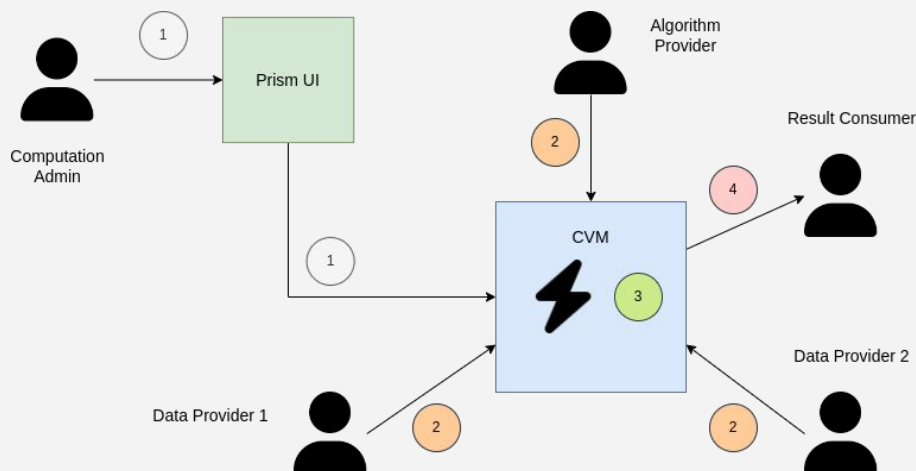
Name	ID	Description	Update	Delete
MedCo	f3009f05-9d86-4e62-a44e-f936da309bda	A platform for privacy-preserving biomedical data sharing and analysis among multiple hospitals and institutions		
MPC4AML	ac1d89ed-3bbf-4836-b6a9-bc975e5bdc3f	Multi-party computation for Anti-Money Laundering, enabling banks to detect suspicious activities collaboratively while protecting client data.		
Industrial Data Space	7c11e541-c51e-417a-9c0c-754407be4d34	Enables secure data exchange and collaboration in manufacturing for optimizing supply chains and production processes using Confidential Computing with TEEs.		
Confidential GovData	60bafb0b-40ab-4a3a-ae9e-cfdce90c0eac	Facilitates secure multi-party computation for public services, allowing government agencies to collaborate on sensitive data securely using TEEs.		

Previous 1 Next

Prism AI excels in user-friendliness with an **intuitive UI** that simplifies navigation and operation. It offers effortless **Confidential VM (CVM) provisioning** and deployment, complemented by streamlined tools for seamless integration into existing workflows.

The platform also supports easy and secure user management, **collaborative workspaces**, and straightforward **computation definitions** and sharing, making complex tasks accessible and manageable.

How Prism AI Works



STEP 1: User creates the Computation and defines Computation characteristics and participants (Program Providers, Data Providers and Result Consumers). When Computation is started, secure VM (TEE) will be dynamically provisioned and prepared for use (hardware and runtime enablement)



STEP 2: Program and Data Providers upload programs and datasets into the enclave using CLI over secure connection, after attesting the validity of the enclave using remote attestation mechanism



STEP 3: Program is executed over combined dataset (following the instructions in the Computation manifest). This execution is coordinated by an in-enclave Agent, once all artifacts defined in Computation manifest are received inside the enclave via secure connection.



STEP 4: Result is sent to the Result Consumer user (defined in the Computation manifest) after the algorithm completed the execution inside the enclave

Prism AI Use-cases



Healthcare

Healthcare, a sector with highly sensitive data, can be revolutionized by AI on combined datasets. Prism AI is used in large-scale EU project [TITAN](#), where medical partners [Inserm](#) France, [Charité](#) Berlin hospital and [UEF](#) are exchanging confidential AI algorithms and data for pediatric care.



Finance

Confidential Computing secures sensitive financial data by processing it in protected enclaves, preventing unauthorized access. This enables financial institutions to use advanced analytics and AI on encrypted data, enhancing fraud detection, risk management, and customer insights while ensuring regulatory compliance.



Industry

Confidential Computing secures sensitive industrial data by processing it in protected enclaves, preventing unauthorized access. This enables companies to use advanced analytics and AI on encrypted data, optimizing production, enhancing predictive maintenance, and improving supply chain management while ensuring data integrity and compliance.



Government

Confidential Computing secures sensitive government data by processing it in protected enclaves, preventing unauthorized access. This allows agencies to use advanced analytics and AI on encrypted data, enhancing decision-making, improving public services, and ensuring data privacy and compliance.

Prism AI Features



Computation definition and management



Remote attestation mechanism



Fine-grained access control
(multi tenant, policies,
ABAC/RBAC)



Intuitive user interface



Secure VM provisioning,
managing and monitoring



End-to-end encrypted traffic



Hardware abstraction layer
and runtime inside the
secure enclaves for
workload execution



Pluggable computation
backends



In-enclave Agent -
execution scheduler and
coordinator



Multiple workload runtime
support (Python, Docker,
Wasm, binary, ...)



Cloud-native deployment



CLI & SDK



Small memory footprint and
fast execution



Open-source Core (Cocos AI)

How Prism AI Is Developed



Ultraviolet, company behind Prism AI, is an active member of the Linux Foundation and the [Confidential Computing Consortium](#)



Prism AI is researched in 3 large-scale EU research projects funded by European Commission:

- [CONFIDENTIAL6G](#) -project that develops cryptographic quantum-resistant protocols and security proofs tools, libraries, mechanism and architectural blueprints for confidentiality in 6G
- [TITAN EOSC](#) - a software platform solution for confidential data collaboration & secure and privacy-preserving data processing
- [ELASTIC](#) - project that pioneers next-gen network orchestration, harnessing WebAssembly and Confidential Computing to ensure efficient, secure service delivery across 6G infrastructures



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