

Imandra is an automated reasoning engine for analysis of data and algorithms

Imandra is an AI platform for extraction of logical patterns from complex data, and rigorous analysis and simulation of algorithms.

Imandra is already used in production by leading financial institutions. We are working with US DoD on a number of SBIRs.



Imandra helps with the most pressing US Gov't defense and intelligence needs

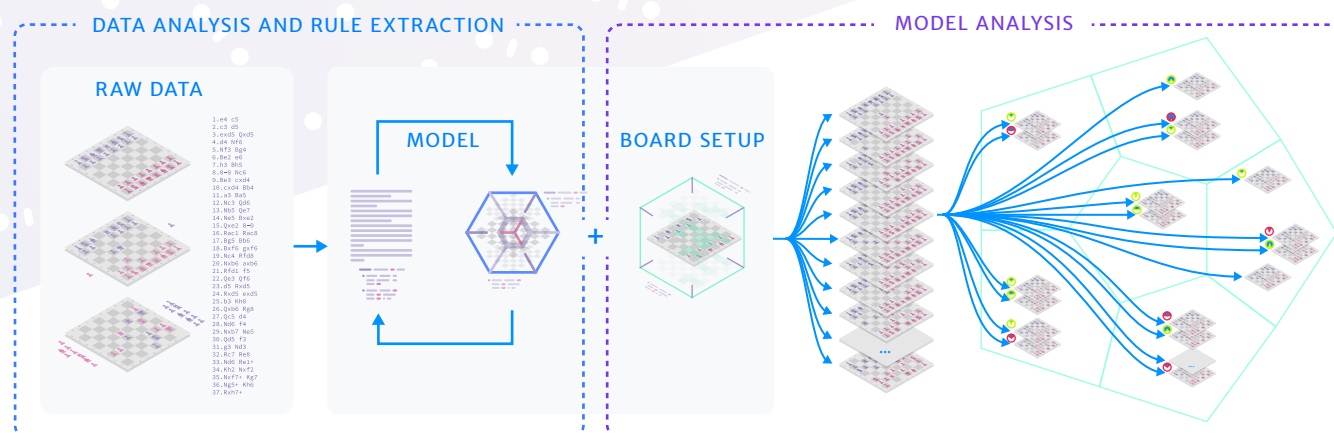
AI for strategic and tactical decision-making: Imandra analyzes complex environments (modeled with both, discrete and continuous events) and extrapolates into the future their possible outcomes. Imandra compresses their vast state-spaces into a compact collection of symbolic scenarios.

AI for testing/audit/monitoring of complex systems: Imandra is a natural medium for modeling, testing and verifying complex systems. Its formal verification features bring unprecedented rigor to software development, democratizing the scientific techniques traditionally reserved to PhDs at places like NASA.

Rigorous (formal) analysis of ML/AI algorithms: The Gov't relies on numerous opaque algorithms. Do they always behave as expected? Are they robust? Are they operating within the regime for which they were trained? Are they ethical? Imandra can answer these and many other questions.

Imandra brings unprecedented insight into sequential data and rigorous analysis of complex systems/environments

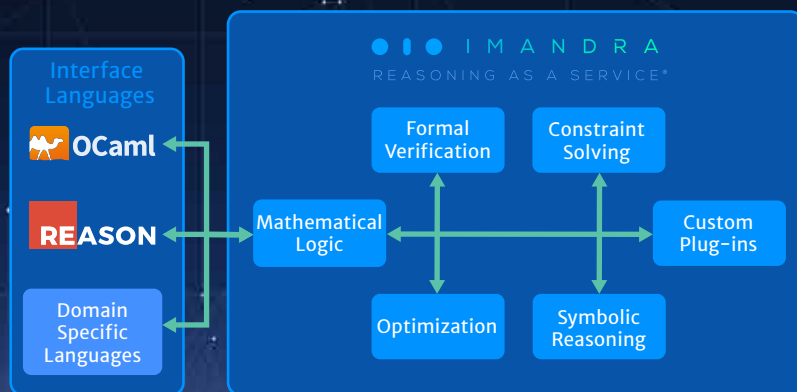
Data analysis and rule extraction: Imandra can extract logical patterns from structured transactional data and consolidate them into a single operational model.



Model analysis: Imandra can analyze model properties, explain its behaviors and project its possible future evolutions (with associated probabilities of those scenarios occurring).



From AI for decision support to algorithm design and governance, Imandra is the ideal foundation for next-generation AI tools.



Imandra converts data and code into mathematical logic where it applies numerous, seamlessly integrated techniques for unprecedented insight into data and algorithms.



Imandra may be used standalone or integrated into a larger application

IMANDRA STANDALONE

Write code (or translate from another language) in OCaml/ReasonML and analyze it with Imandra (e.g. verify its properties). Then use the OCaml compiler toolchain to compile the code into an executable.

IMANDRA AS AN API

Incorporate Imandra's Reasoning as a Service APIs into a larger application. For example, leverage Imandra's region decomposition/constraint solving within a larger planning framework, or use Imandra to generate test cases within your agile software development process.

Deployment, license and customization

We can deploy Imandra in a cloud or 'single process' setting. Some categories of computations may be cached (thus can be 'precomputed') and deployed on low-power architectures. We sell Imandra through a license and will work with you to customize it to fit your needs.

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