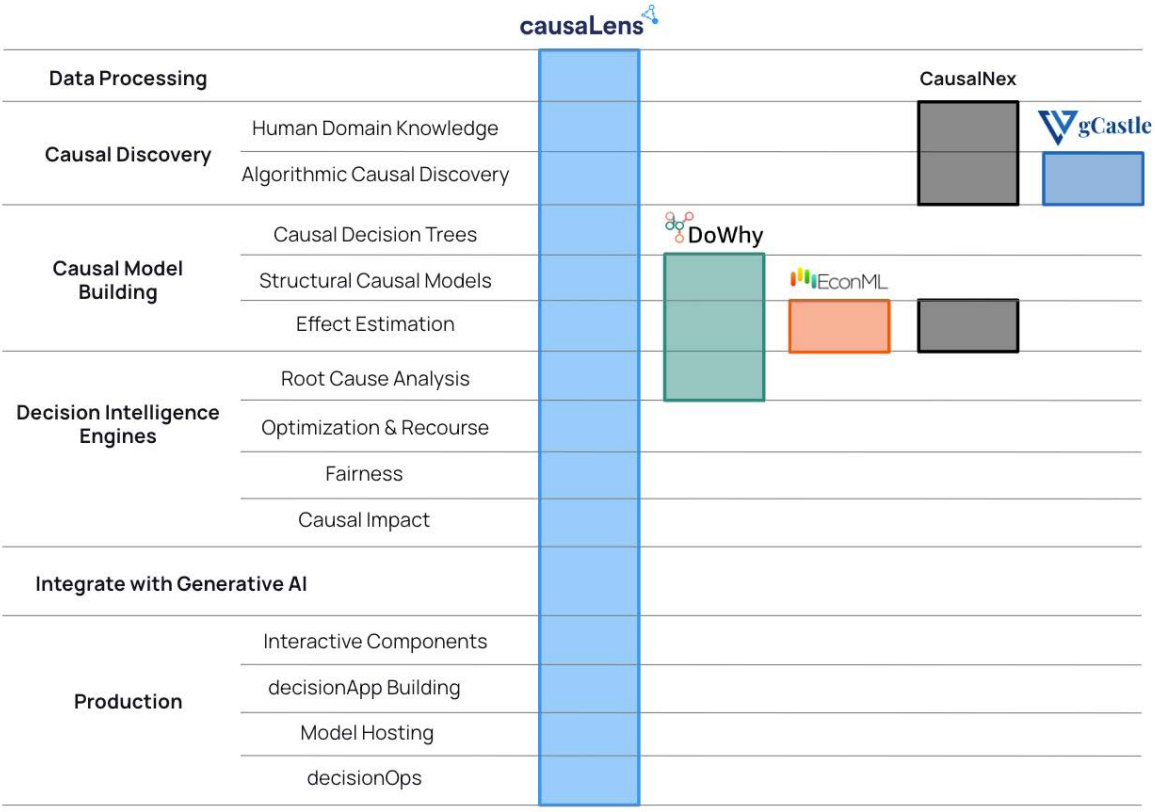
Open Source at causaLens

causaLens

Only causaLens Enables You to Move from Data to Decisions

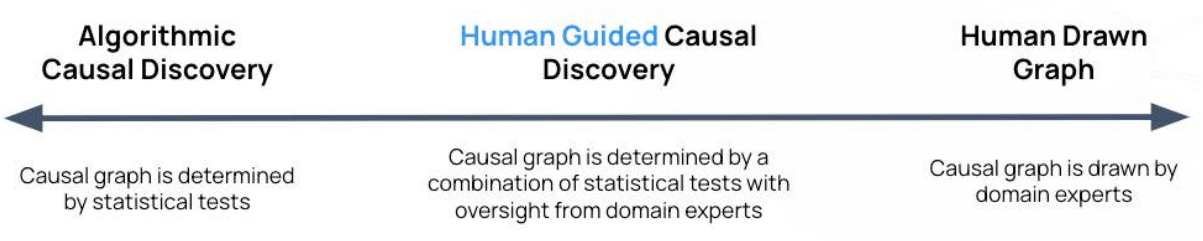
causaLens enables enterprises to move from data to decisions powered by Causal AI. To achieve this, causaLens has brought to market decisionOS- the first operating system for decision-making.



An overview of the capabilities of causaLens' decisionOS compared to open source libraries.

Unlike alternatives, decisionOS has a complete and unique suite of capabilities necessary to enable enterprises to move from data to decisions. A few key unique capabilities are highlighted below:

- **Human-Guided Causal Discovery:** decisionOS uniquely supports Human-Guided Causal Discovery (HCGD); HGCD combines the best algorithmic causal discovery with human domain expertise, resulting in more accurate causal graphs in less time.



- **Decision Intelligence Engines:** decisionOS provides Decision Intelligence Engines (DIEs) that automate the orchestration of causal models to solve common business challenges. This allows you to set up complex business optimizations that respect your real-world constraints, determine the root causes of anomalous events, or even assess the fairness of models.

- **decisionOps**: In many data science initiatives, there is no clear way to attribute impact on KPIs or measure ROI. decisionOps tracks decisions made from source data to actionable recommendations through to the ultimate outcome and reports that back in the KPIs that your enterprise cares about. Using Causal AI "what-if" scenarios can be explored, and the impact of multiple decisions can be evaluated simultaneously, leading to better decision-making.

causaLens Gives You a Competitive Edge

Whilst open source technology in this space has historically emerged from research laboratories, causaLens' offering has been consistently battle-tested in real-world environments for some of the largest enterprises on the planet. causaLens outperforms alternatives at all stages within the causal workflow while offering unique capabilities found nowhere else:

- Causal Discovery: Uncovers a causal graph from observed data. Causal graphs describe the cause-and-effect relationships within the data. On a benchmark of five datasets, causaLens outperformed open-source alternatives in 80% of cases in terms of both performance and runtime.

- Causal Modeling: While a causal graph describes the causal relationships within data, a causal model learns the mathematical relationships based on data. Causal models have a range of advantages over purely correlational models, such as the ability to perform accurate "what-if" scenario planning. On a benchmark of 14 datasets, **causaLens models outperformed alternatives in 93% of cases on in-sample data and in 100%of cases on out-of-sample data** when estimating a variety of "what-if" scenarios.

causaLens Embraces Open Source

causaLens is the pioneer in the Causal AI space, and since the company's inception in 2017, it has been spearheading the evolution of Causal AI technology. During this time, the Python open-source Causal AI ecosystem has emerged.

Timeline showing how the Causal AI Python ecosystem has developed since its foundation by causaLens in 2017.

Wherever possible, causaLens makes it seamless to plug and play with the Causal AI open-source packages. causaLens adopts and embraces collaboration, not competition, philosophy. This ensures that freedom of choice to pick the methods most appropriate to the challenge being solved is preserved. As such, any open-source package can be installed and used by Data Scientists using the causaLens platform.

causaLens Reduces Your Total Cost of Ownership

Enterprises new to the Causal AI journey may choose to use open source and connect the disparate puzzle pieces together. In doing so, they are creating a bespoke system composed of a unique combination of open-source packages.

This leads to a high total cost of ownership due to integration and maintenance burdens, the experimentation and expertise required, and suboptimal methodologies. causaLens simplifies this entirely: providing a deeply cohesive, integrated ecosystem of technology, ready to deliver value immediately, backed by leading experts in the space.

causaLens has raised $51,000,000 to date and invests that into engineering and R&D resources to develop decisionOS. With strong commercial traction, an appetite from investors for future funding rounds, and high cash reserves causaLens' efforts are future-proofed. **causaLens is investing in developing the premier Causal AI technology so that you don't have to.**

causaLens Gives You Access to World-Class Talent

causaLens has built a world-class research and development team with over 50 years of combined experience- consistently pushing the boundaries of what's possible in the Causal AI field. The wealth of expertise within the causaLens team ensures that causaLens is not merely a participant in the technological evolution but a driving force, consistently delivering solutions that outpace industry standards.

The causaLens team works shoulder to shoulder with customers in developing best practices, solving challenges, and co-developing new capabilities.

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