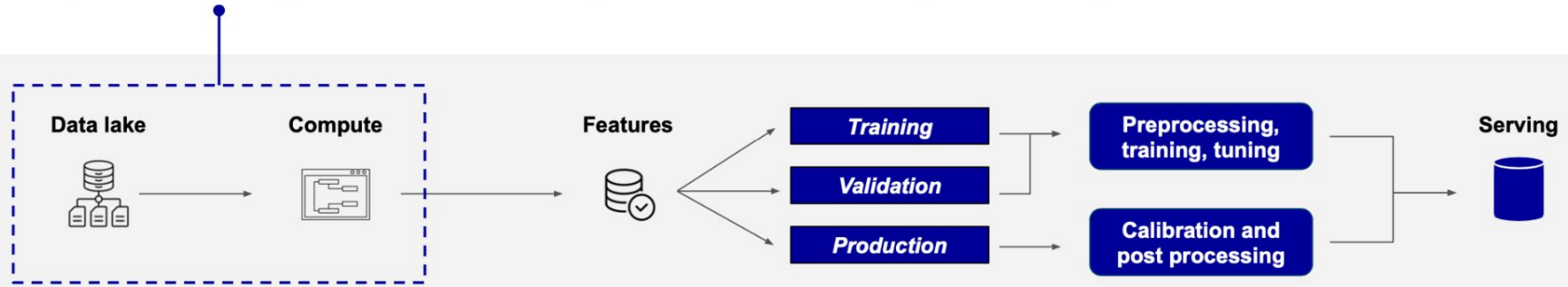


Data processing tools for compute are an integral component of AI/ML workflows



Industry trends

30.4%

Global Machine Learning
market CAGR through 2030

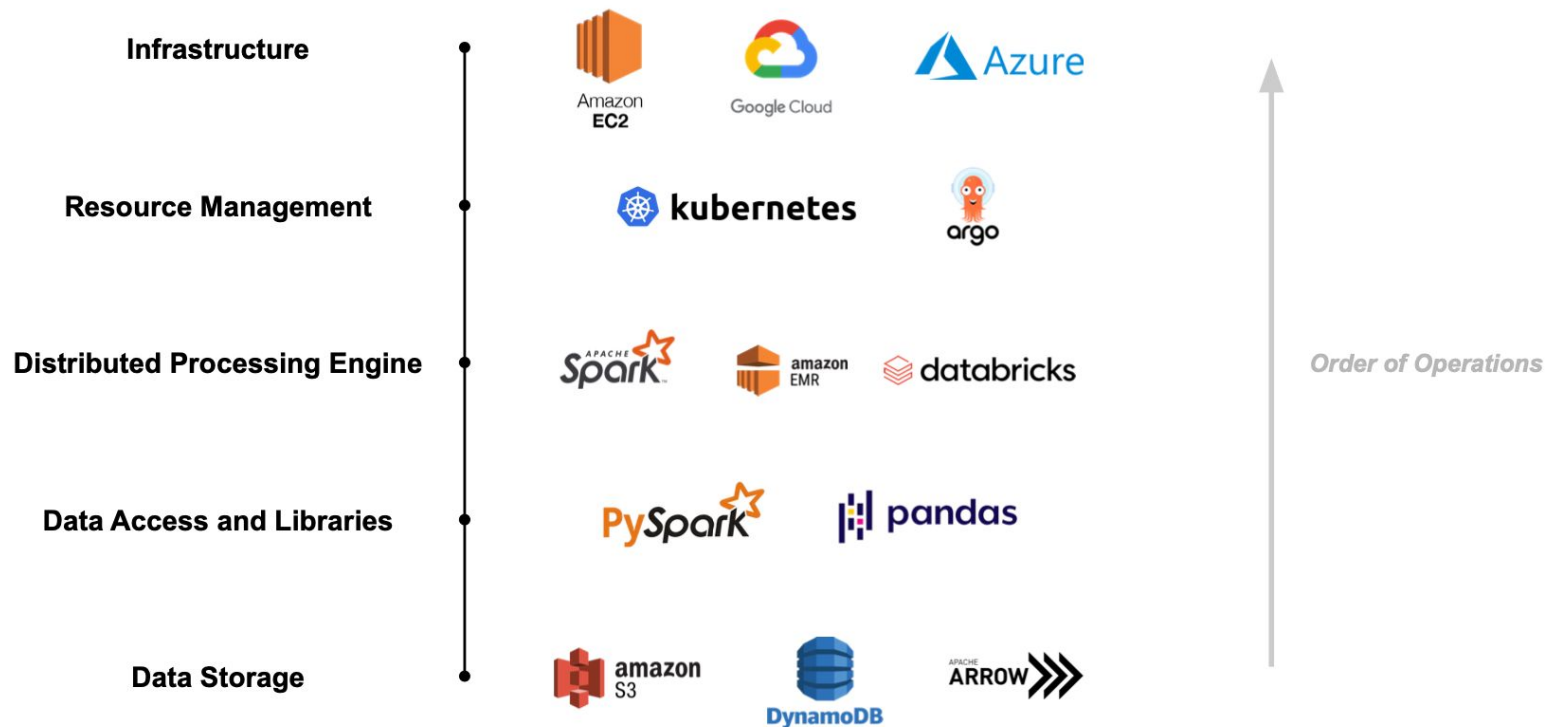
19-22%

Increase in global demand
for data center capacity

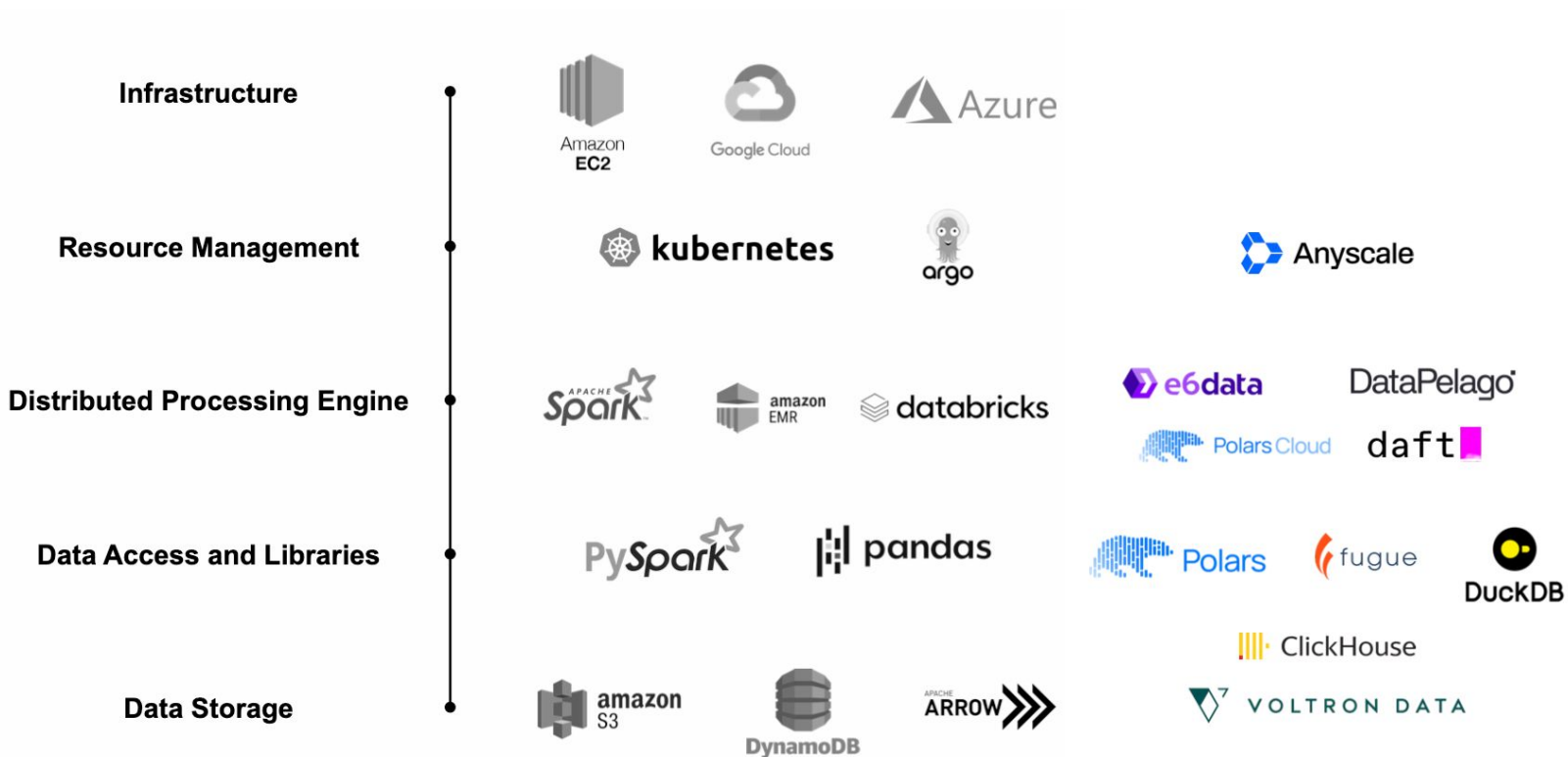
23%

YoY growth of enterprise
spending on cloud services

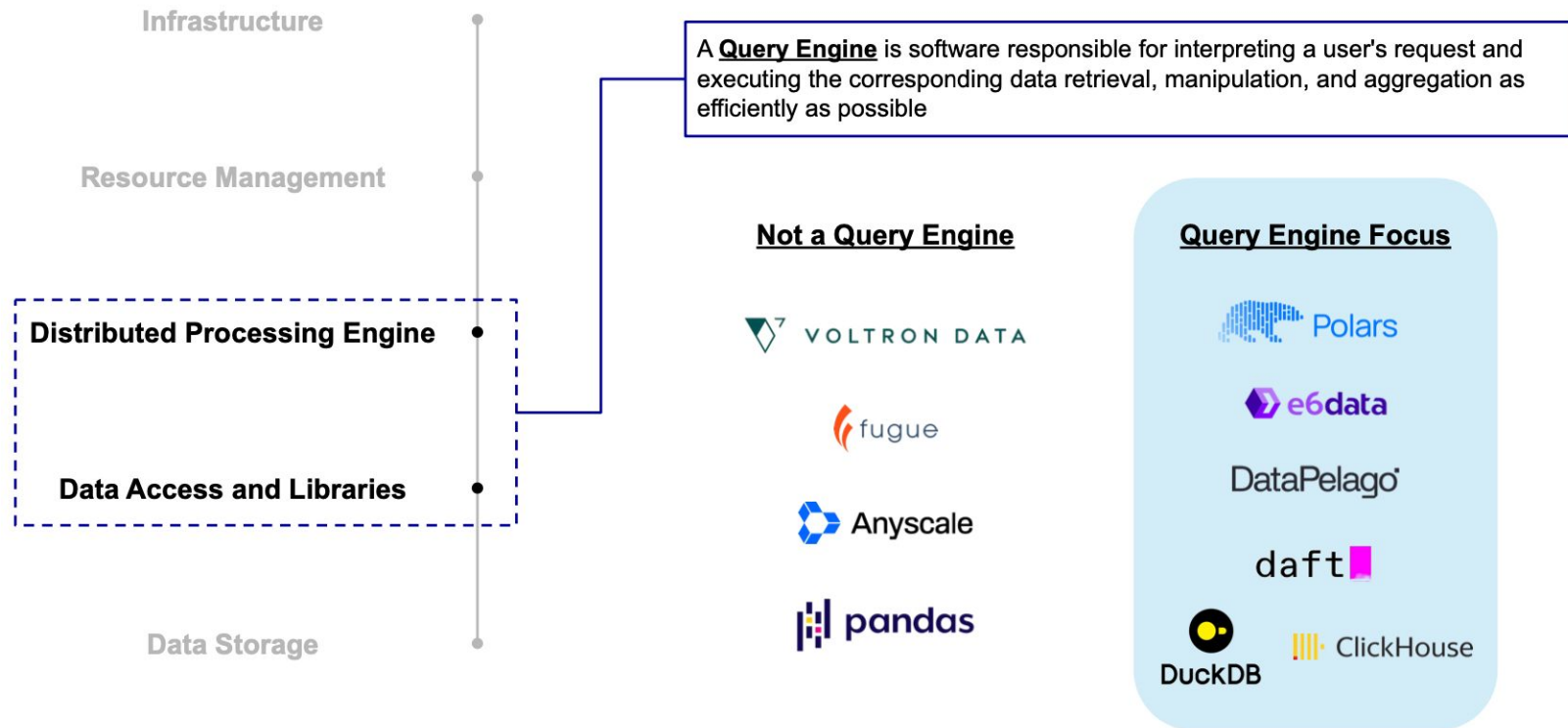
Storage-to-compute stacks are comprised of various hyperscaler and open source offerings








... and emerging startups that offer optimized alternatives to baseline tools



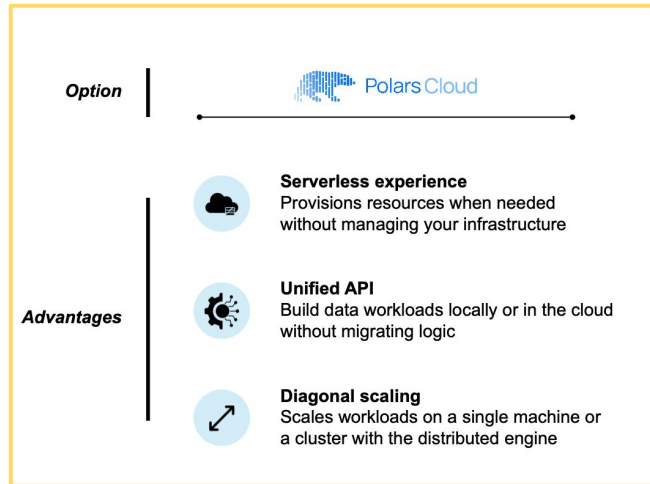
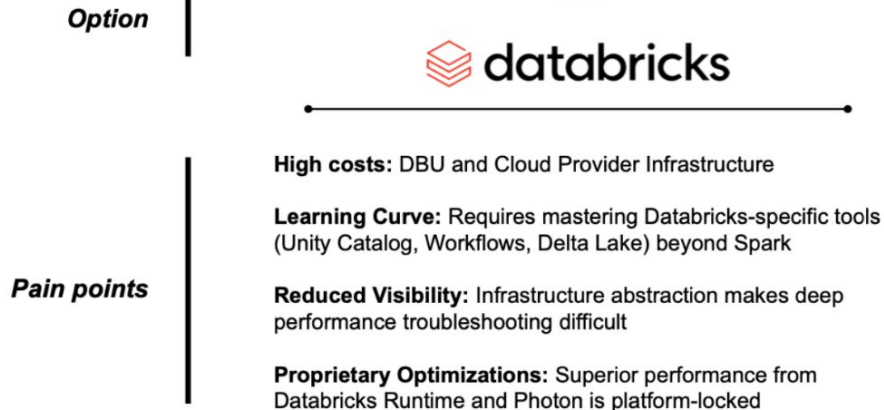
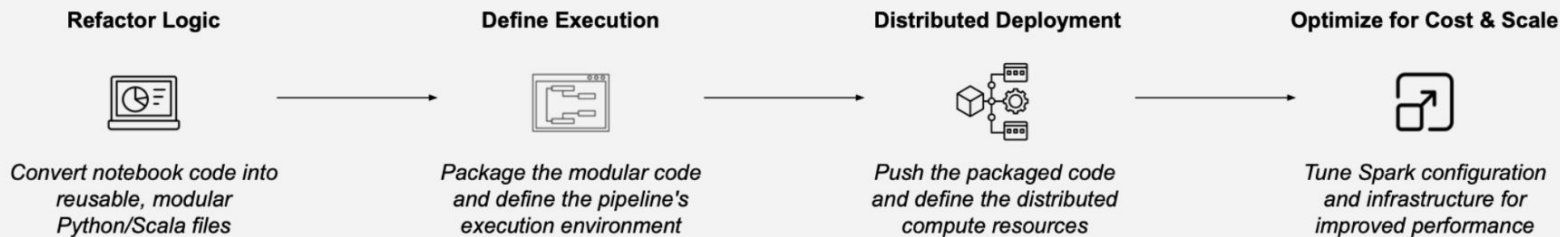
Query engines are the optimization layers for how data is computed



Market landscape: Data processing startups with a query engine optimization layer

	Polars	e6data	DataPelago	Daft (Eventual)	DuckDB
					
Funding <i>Investors, Stage</i>	\$25M <i>Accel, Series A</i>	\$13.6M <i>Accel, Series A</i>	\$47M <i>Eclipse, Qualcomm, Series A</i>	\$30M <i>Felicitis, YC, Citi, Series A</i>	OSS <i>non-profit foundation</i>
Employees <i>Size</i>	10	95	63	29	24
Momentum <i>Customers, Adoption</i>	<i>Open Beta on AWS</i> OSS 36k+ stars	<i>Chargebee and Freshworks</i>	<i>McAfee, Hidden Layer and more ...</i>	OSS 4.7k+ stars <i>Amazon, Together.AI and more ...</i>	OSS 34k+ stars
Product snapshot	<i>Python-native distributed data processing engine</i>	<i>Kubernetes-native for distributed SQL tasks</i>	<i>Accelerated compute platform focused on hardware abstraction</i>	<i>Python-native distributed data processing engine</i>	<i>Single-Node Analytical Database (OLAP DBMS)</i>
Compete?	✓	✓	✗	✓	✗

Data compute flows are limited by configuration friction for cloud deployments



Polars and Polars Cloud



New era of DataFrames with Polars

Polars is a DataFrame library designed from the ground up for fast and efficient data processing on a single machine. Used in the data ecosystem for fast transformations to replace pandas and PySpark.

- **Intuitive DataFrame API**, enabling full columnar context and reusable blocks to build your queries.
- **Optimizer takes responsibility for query performance**, incorporating decades of database system research to execute as efficient as possible.
- **Different engines for each use case**, process data in-memory, with streaming for larger than RAM datasets, or accelerated using the GPU engine.
- **End to end integrated**, written from scratch to have a tight integration from IO to query engine and full control of performance critical parts.

Growing popularity in the data community

22M+
monthly
downloads

35k+
Github
stars

250M+
total
downloads

Powering production workflows at leading organizations

Optiver

RESEARCH



DECATHLON



Integrating with popular data ecosystem partners



Hugging Face






SEAMLESS PROCESSING AT ANY SCALE

Introducing Polars Cloud to run Polars at scale

Deploy and scale data processing workloads with zero infrastructure management. Natively built on top of the popular Polars API that data teams know and love.

- Build data workloads locally or in the cloud. No more migration between tools, write Polars once and run.
- Scale out data workloads on a single machine or a compute cluster with the new distributed engine.
- Spin up the compute resources you need to execute at scale without managing infrastructure.

Product comparisons

			
Description	Managed service that deploys the Polars distributed engine for large-scale queries with zero infrastructure management.	Lakehouse Engine with a decentralized, Kubernetes-native architecture designed to optimize large-scale SQL workloads.	An open-source, Python-Native, Distributed Data Engine and DataFrame library built specifically for AI/ML workloads.
Advantages	<ul style="list-style-type: none">✓ Maximizes core usage through diagonal scaling (vertical AND horizontal)✓ Write once, run anywhere (seamless local to prod deployment)✓ Speed (Rust backend)	<ul style="list-style-type: none">✓ 5-10x faster than Databricks/Snowflake✓ Interoperability with all major lakehouse formats and catalogs (Delta, Iceberg)	<ul style="list-style-type: none">✓ Speed (Rust backend)✓ Native support for multimodal data
Disadvantages	<ul style="list-style-type: none">✗ Polars Cloud offering is in Beta✗ Extended data catalog and job scheduling features are still on the roadmap	<ul style="list-style-type: none">✗ Primarily a SQL-centric engine✗ Does not offer a native, Python-first DataFrame experience	<ul style="list-style-type: none">✗ No support for diagonal scaling (horizontal only)✗ Relies on Ray's object and memory handling framework (dependency)

Spark alternatives is not a new market, but a distributed engine solution that connects seamlessly with a performant upstream dataframe library is rare

Refactor Logic



Define Execution



Distributed Deployment



Optimize for Cost & Scale



Existing tools



Solves API inconsistency and tool fragmentation

Code built and tested locally runs without changes on the distributed cloud cluster.

Solves the configuration complexity

Engine is natively built on the Polars architecture, leading to savings and better performance vs. tuning a Spark job.

Polars Advantage

Polars team and history

Founding Team



Ritchie Vink

CEO and Co-founder

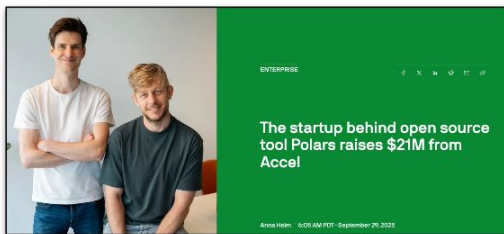
- Xomnia (data + AI servicing)
- Adidas



Chiel Peters

Co-founder

- CTO @ Xomnia (data + AI servicing)



Key Facts

Founding

- Founded 2020 as an open source, high-performance and multi-threaded DataFrame library to address performance limitations in existing data manipulation tools like Pandas.

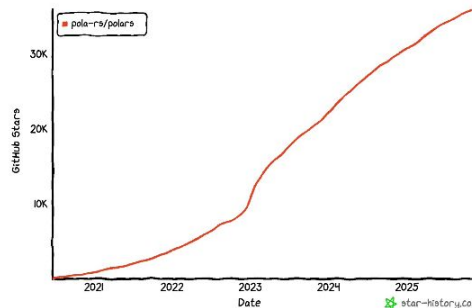
Fundraising

\$21M Series A in September 2025

Accel



Polars Open Source Star Count (36K+)



Users of Polars Open Source Offering



and more ...