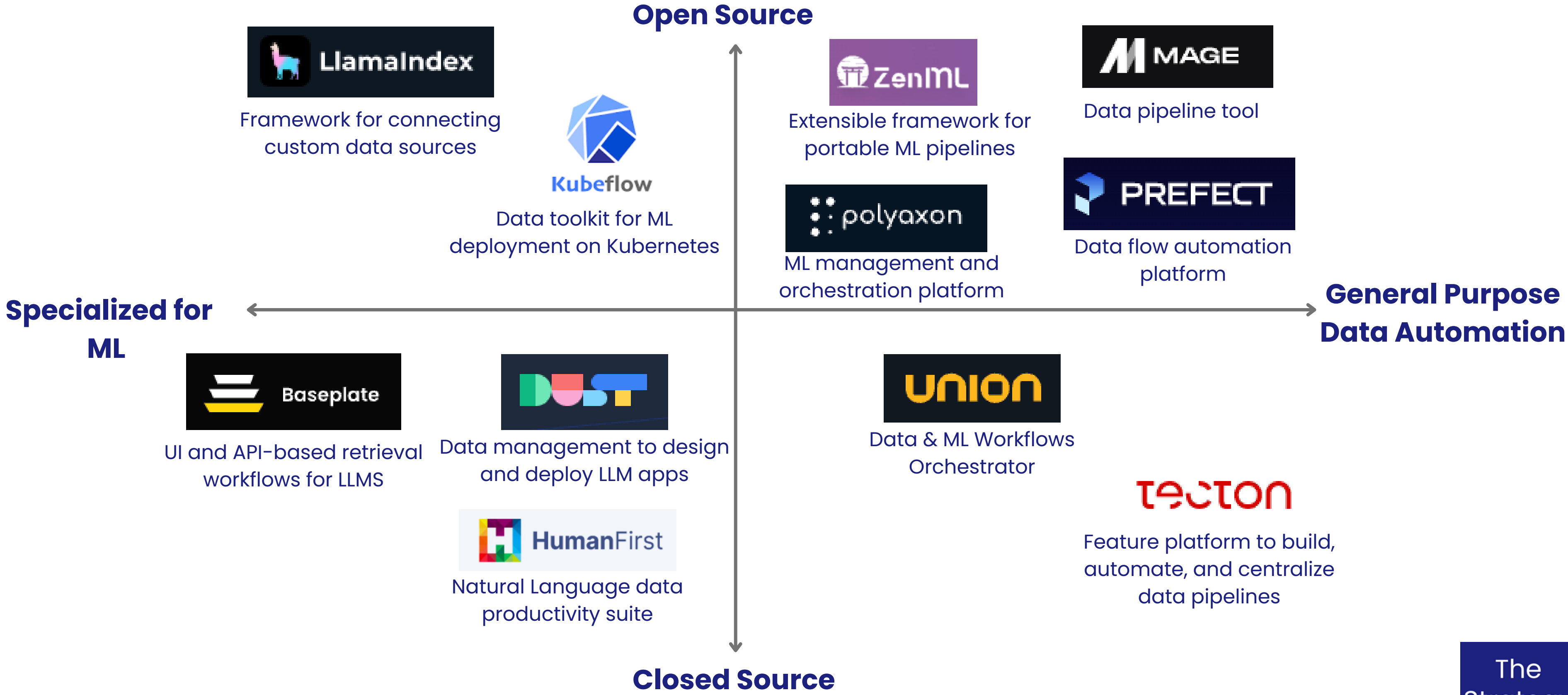


# ML Data Automation & Orchestration Tools



# Broad Range of Products, from LLM App Building Tools to General Purpose Data Automation Platforms

## LLM App Building Tools



Framework for connecting custom data sources



UI and API-based retrieval workflows for LLMs

## ML-focused Data Automation



Data toolkit for ML deployment on Kubernetes



Data management to design and deploy LLM apps



Natural Language data productivity suite



Extensible framework for portable ML pipelines



ML management and orchestration platform



Data & ML Workflows Orchestrator

## General Purpose Data Automation



Data pipeline tool

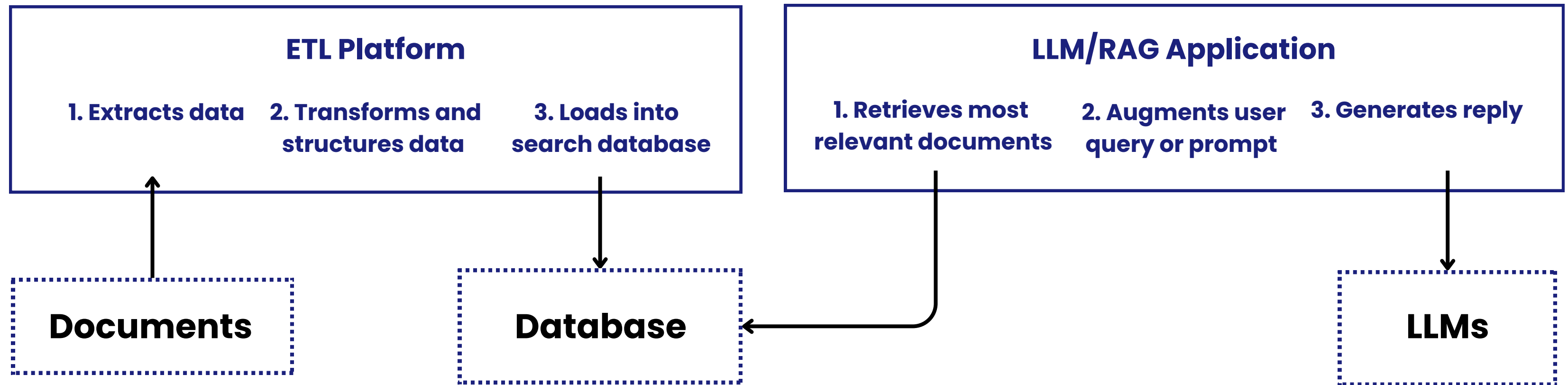


Data flow automation platform



Feature platform to build, automate, and centralize data pipelines

# Workflow Example: ETL Platforms Connect Data Sources to LLM Applications



## Company



- Unleash the power of LLMs over your data
- **\$US8.5M Seed** in Jun 2023
- HQ in **SF, CA**
- <https://www.llamaindex.ai/>

## Partnerships & GTM

- Open source
- B2B SaaS

## Tech Stack & Product

- Simple, flexible **framework for connecting custom data sources** to large language models.
- **Data ingestion** - connection existing data sources to a LLM app
- **Data indexing** - store, index and integrate data with downstream vector store and database providers
- **Query interface** that accepts any input prompt and returns a knowledge-augmented response

## Value Proposition & Use Cases

- Document Q&A for unstructured data
- Data Augmented Chatbots for a knowledge corpus
- Knowledge Agents to build automated decision machines
- Structured Analytics for data warehouses

## Company



- High-performance retrieval workflows with no additional work.
- **\$US500k Pre-Seed** in Apr 2023
- Backed by **YCombinator**
- HQ in **SF, CA**
- <https://www.baseplate.ai/>

## Partnerships & GTM

- B2B SaaS

## Tech Stack & Product

- **UI and API-based workflow manager** to handle embeddings, storage and version control so the data is always in sync and up-to-date
- **Unified Hybrid Database** - embed and store data in the same table as the images, text and links for the LLM
- Manage your vector database like a spreadsheet - **edit your vectors** through the UI or programmatically

## Value Proposition & Use Cases

- Connect your data to LLM apps
- Hybrid search with custom embeddings tuned for your data
- Get accurate results regardless of the type, size or domain of the data you're searching through

## Company



- Secure AI assistant with your company's knowledge
- **EUR5M Seed** in Jun 2023
- HQ in **Paris, France**
- <https://dust.tt/>

## Partnerships & GTM

- B2B SaaS

## Tech Stack & Product

- Build custom Large Language Model apps on top of your company data.
- Flexible framework to define and deploy LLM apps
- Built to handle **entanglement and speed, introspection and versioning**

## Value Proposition & Use Cases

- Working on multiple examples at the same time while designing a large language model app.
- Introspecting model outputs produced by intermediary steps of large language model apps.
- Iterating on the design of large language model apps by providing a granular and automated versioning system

## Company



- The Machine Learning Toolkit for Kubernetes
- **Non-profit**
- HQ in **Mountain View, CA**
- <https://www.kubeflow.org/>

## Partnerships & GTM

- B2B SaaS

## Tech Stack & Product

- Making deployments of machine learning (ML) workflows on Kubernetes simple, portable and scalable.
- A straightforward way to deploy best-of-breed open-source systems for ML to diverse infrastructures
- Assists in data preparation, model training, prediction serving and service management

## Value Proposition & Use Cases

- Includes services to integrate with Jupyter notebooks, a custom TensorFlow training job operator and a TensorFlow service container
- Integration with TensorFlow Serving, Seldon Core, NVIDIA Triton Inference Server and MLRun Serving

## Company



- The fastest way to build custom AI you can trust
- **\$US5M Seed** in Jul 2023
- HQ in **Montreal, Canada**
- <https://www.humanfirst.ai/>

## Partnerships & GTM

- B2B SaaS

## Tech Stack & Product

- Natural Language **data productivity suite** to design, test and launch high-quality NLU models and prompts to power business insights, automation and CX
- Pairing human-in-the-loop and AI, **build high-quality datasets to train AI models and test prompts**
- Low-code environment, track data origins, developer-friendly APIs & CLI, revisions, diffs, revert, cloning, horizontal scaling

## Value Proposition & Use Cases

- AI-assisted human workflows that provide superpowers for: exploring data, labeling data, fixing and improving model accuracy, scaling models



## Company



- Run MLOps workflows on any infrastructure
- **\$US2.7M Seed** in Dec 2021
- HQ in **Munich, Germany**
- <https://www.zenml.io/home>

## Partnerships & GTM

- B2B SaaS
- Open source

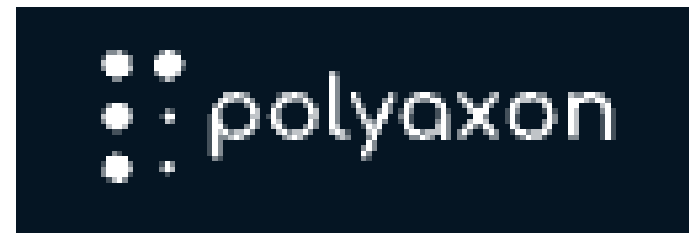
## Tech Stack & Product

- **Extensible MLOps framework** for creating portable, production-ready ML pipelines.
- Organize data, models, code across your tooling stack all in one place
- **Pipeline-agnostic**
- Run ML anywhere, **locally or on open source tools or managed orchestration**

## Value Proposition & Use Cases

- ZenML helps you **standardize your ML workflows** as Pipelines consisting of decoupled, modular steps
- MLOps Platform Sandbox provides a **one-click deployment platform** for a pre-built ephemeral MLOps stack, simplifying the deployment process.

## Company



- Machine Learning Operations & Infrastructure
- HQ in **Berlin, Germany**
- <https://polyaxon.com/>

## Partnerships & GTM

- B2B SaaS
- Open source

## Tech Stack & Product

- Reproduce, automate, and scale your data science workflows with production-grade MLOps tools
- Runs with all popular deep learning frameworks and ML libraries
- **Cloud provider-agnostic**
- **Polyaxon Cloud** – fully managed control plane for deployment, orchestration, logging, backups
- **Polyaxon EE** – on premise Enterprise Edition
- **Polyaxon Community** – free version with core features

## Value Proposition & Use Cases

- Provides tracking, orchestration, optimization, insights, model management, artifacts lineage, collaboration, management, compliance, scalability

## Company



- Converge and simplify AI, data and analytics
- **\$US19.1M** Series A in May 2023
- HQ in **Bellevue, WA**
- <https://www.union.ai/>

## Partnerships & GTM

- B2B SaaS
- Open source

## Tech Stack & Product

- **Flyte: Effortless Data & ML Workflows for Production**
- Workflow visualization to monitor models and view training history
- Versioning and task level monitoring
- **Union Cloud:** Kubernetes-native data and ML workflows at scale
- **Union ML:** the fastest way to build and deploy ML microservices

## Value Proposition & Use Cases

- Reduce project time, boilerplate code and total pipeline costs by up to 90%
- Union Cloud: package applications as containers and deploy them to your preferred cloud environments and to on-premise data centers.

## Company



- Give your data team magical powers
- **\$US6.3M Seed** in Mar 2023
- HQ in **Santa Clara, CA**
- <https://www.mage.ai/>

## Partnerships & GTM

- B2B SaaS
- Open source

## Tech Stack & Product

- **Open-source data pipeline tool**
- Effortlessly integrate and synchronize data from 3rd party sources.
- Build real-time and batch pipelines to transform data using **Python, SQL, and R**.
- **Run, monitor, and orchestrate thousands of pipelines** without losing sleep.

## Value Proposition & Use Cases

- Easy developer experience – Start developing locally with a single command or launch a dev environment in your cloud using Terraform
- Language of choice
- Engineering best practices built-in – **modular code** that is reusable and testable with data validations

## Company



- Dataflow automation platform
- **\$US32M Series B** in Jun 2021
- HQ in **Washington, DC**
- <https://www.prefect.io/>

## Partnerships & GTM

- B2B SaaS
- Open source

## Tech Stack & Product

- Orchestrate and observe all of your workflows, like air traffic control for your data.
- Use a flexible Python framework to easily **combine tasks into workflows**, then **deploy, schedule, and monitor** their execution through the Prefect UI or API.

## Value Proposition & Use Cases

- Take care of **scheduling, infrastructure, error handling, retries, logs, triggers, data serialization, parameterization, dynamic mapping, caching, concurrency**, and more.
- Scheduling, executing and visualizing your data workflows has never been easier.

## Company

**TACTON**

- Transform. Serve. Scale
- **\$US100M Series C** in Jul 2022
- HQ in **San Francisco, CA**
- <https://www.tecton.ai/>

## Partnerships & GTM

- B2B SaaS

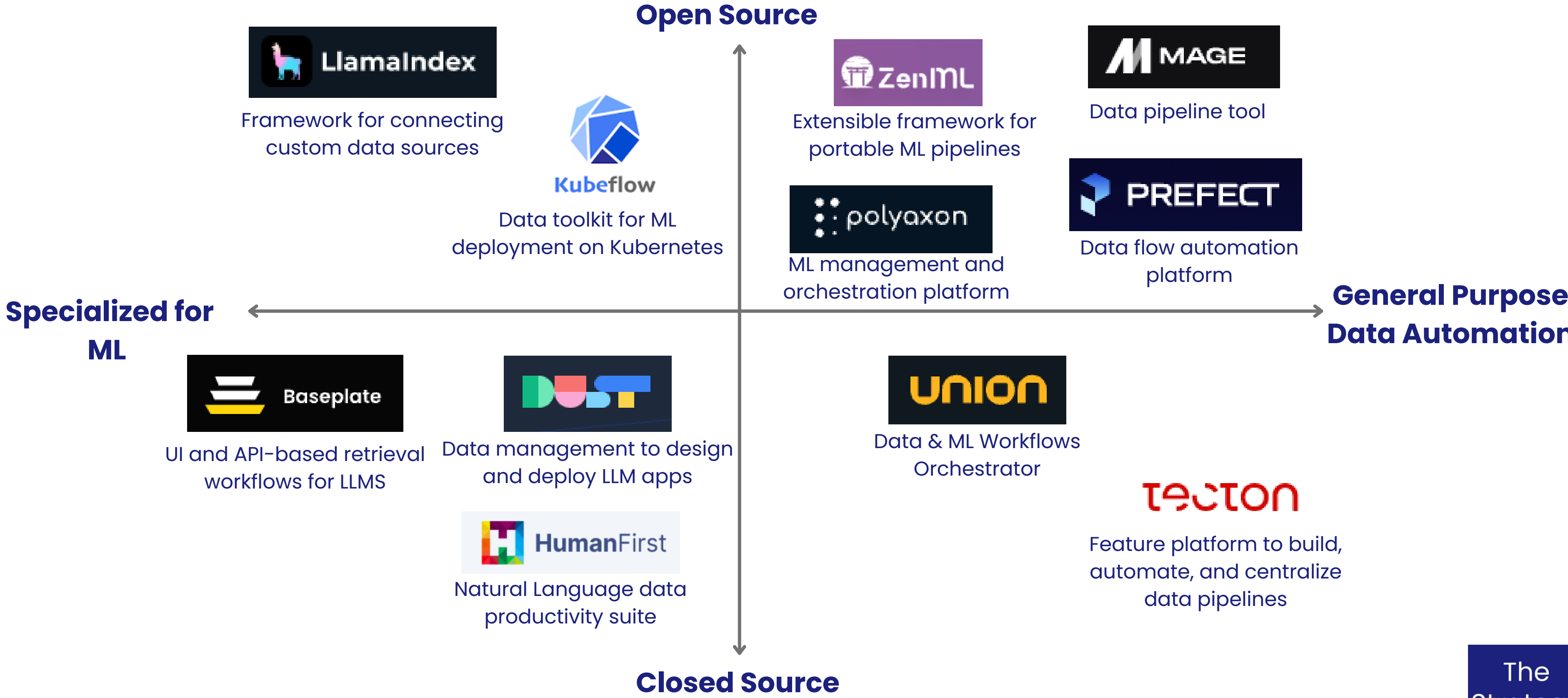
## Tech Stack & Product

- Build, automate, and centralize production-ready batch, streaming, and real-time data pipelines to power any ML application with fresh ML features
- The Complete Feature Platform to Build, Automate, and Centralize Data Pipelines for Production Machine Learning
- Create data pipelines from a few lines of code to one model or thousands simultaneously

## Value Proposition & Use Cases

- Fully managed and cloud native
- Built for availability and scale
- Integrates with storage and processing infrastructure

# ML Data Automation & Orchestration Tools



# Need Help with **Product Strategy** for your AI app?

➤ Alex Irina Sandu



➤ [alex@thestrategydeck.com](mailto:alex@thestrategydeck.com)

➤ [www.thestrategydeck.com](http://www.thestrategydeck.com)