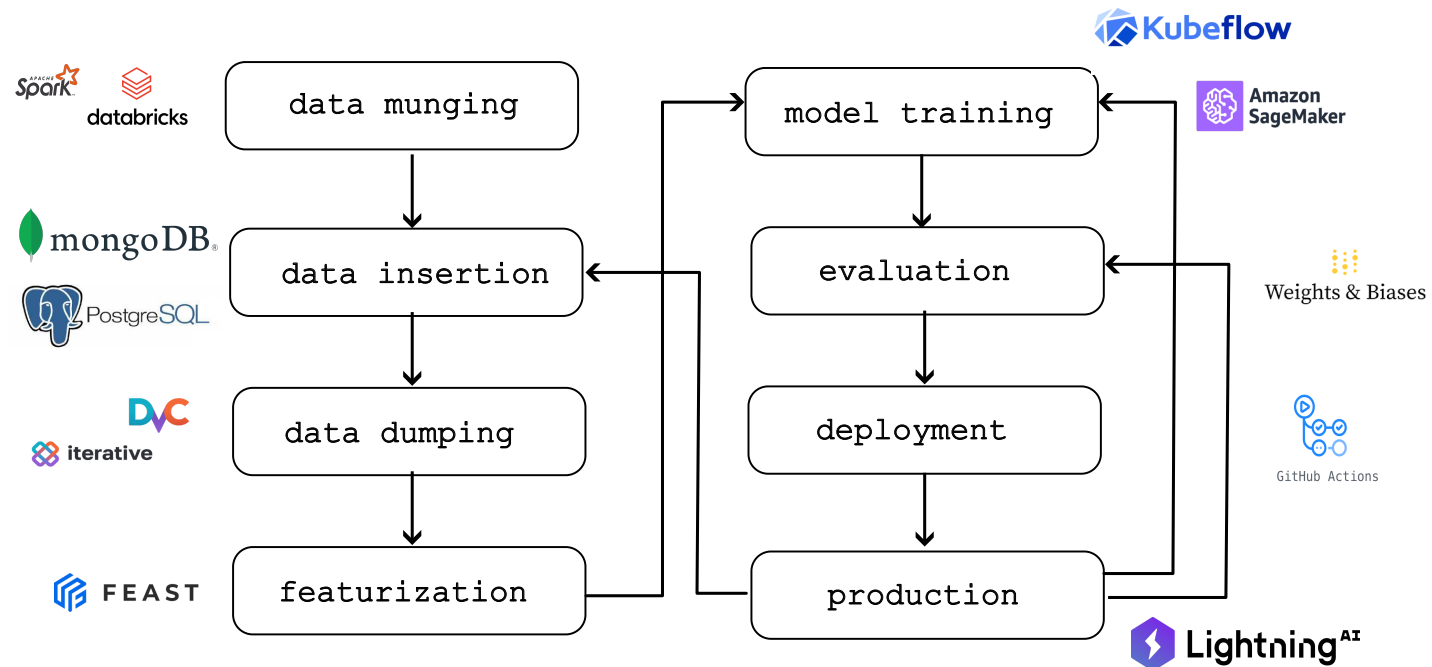# SuperDuperDB

Superpower your database with AI

Integrating AI and applying AI to data is a huge challenge

The AI lifecycle is highly complex, interdependent but fragmented.

Current solutions don't enable efficient interoperability between data and models

- Data preparation and processing causes huge overhead

- No intelligent information lookup on the fly by the model

- No handling of new data points (streaming)

Companies do not own their data and AI

Companies want

- 100% control over their infrastructure and deployments

- To avoid vendor lock-in by cloud and SaaS providers

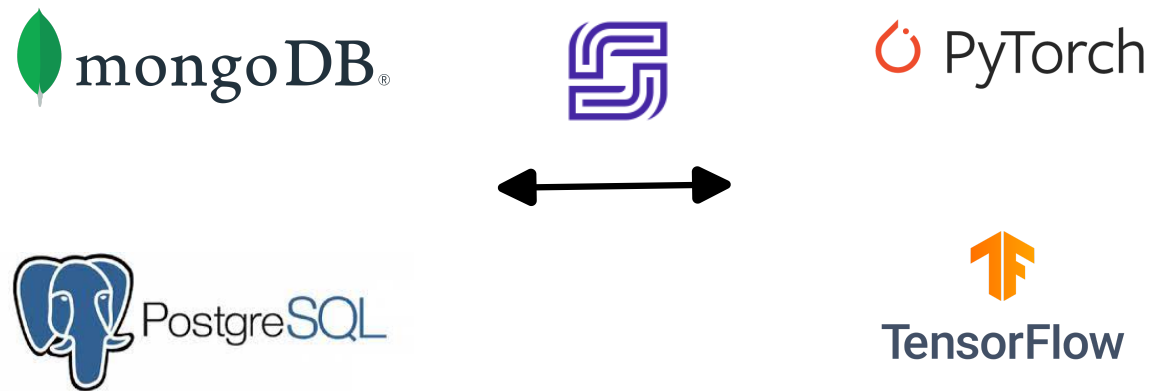- Transparency & auditability over what happens with their data

Data and AI need to be fully united in order to maximize their value

SuperDuperDB

The first fully fledged AI-database solution

SuperDuperDB: Integrating AI directly into your database

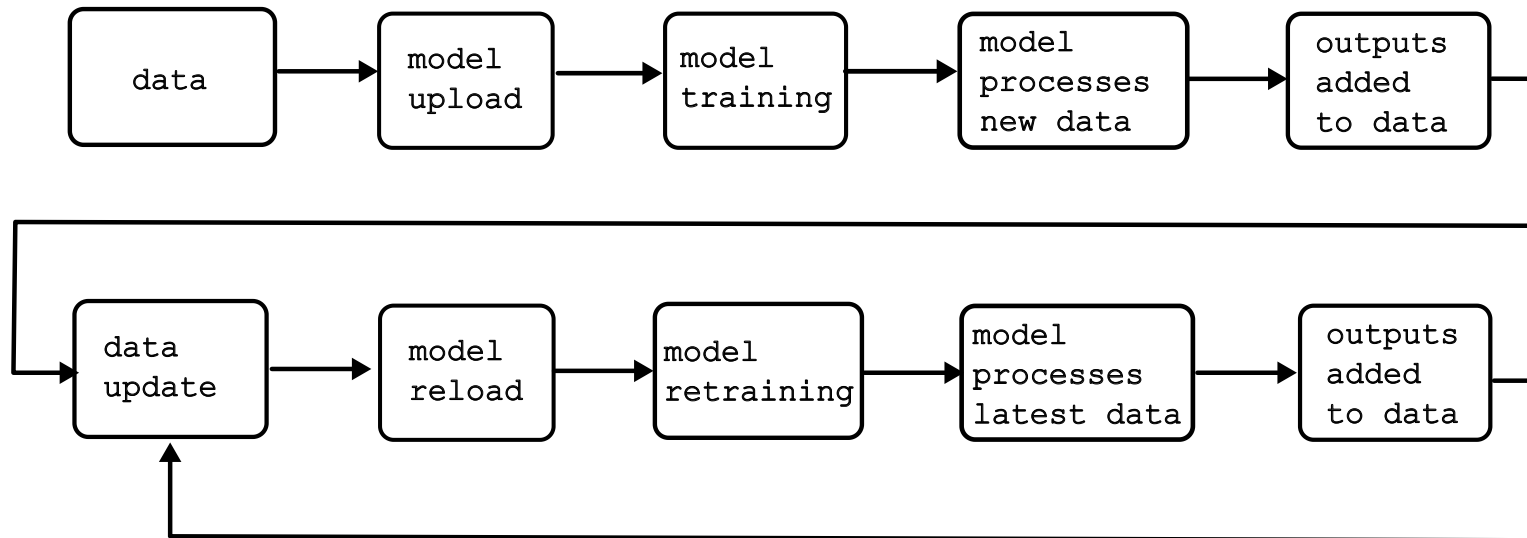**Uniting best in class database and deep learning software**

A solution for data scientists designed by data scientists

SuperDuperDB allows full flexibility and maximal agility

- Train and develop arbitrary AI models without infrastructural overhead.

- Deploy live AI models to the database to give unprecendented data navigation and comprehension.

SuperDuperDB is a unified environment for the entire AI-data workflow

Computation of new output happens directly on the data - outputs are stored directly with the input data

```
┌──────────┐      ┌──────────┐      ┌──────────┐      ┌──────────┐      ┌──────────┐
│          │      │ model    │      │ model    │      │ model    │      │ outputs  │
│  data    │─────▶│ upload   │─────▶│ training │─────▶│ processes│─────▶│ added    │──┐
│          │      │          │      │          │      │ new data │      │ to data  │  │
└──────────┘      └──────────┘      └──────────┘      └──────────┘      └──────────┘  │
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  │  ┌──────────┐      ┌──────────┐      ┌──────────┐      ┌──────────┐      ┌──────────┐
  │  │ data     │      │ model    │      │ model    │      │ model    │      │ outputs  │
  └─▶│ update   │─────▶│ reload   │─────▶│ retraining│────▶│ processes│─────▶│ added    │──┐
     │          │      │          │      │          │      │ latest data│    │ to data  │  │
     └──────────┘      └──────────┘      └──────────┘      └──────────┘      └──────────┘  │
          ▲                                                                                │
          └────────────────────────────────────────────────────────────────────────────── ┘
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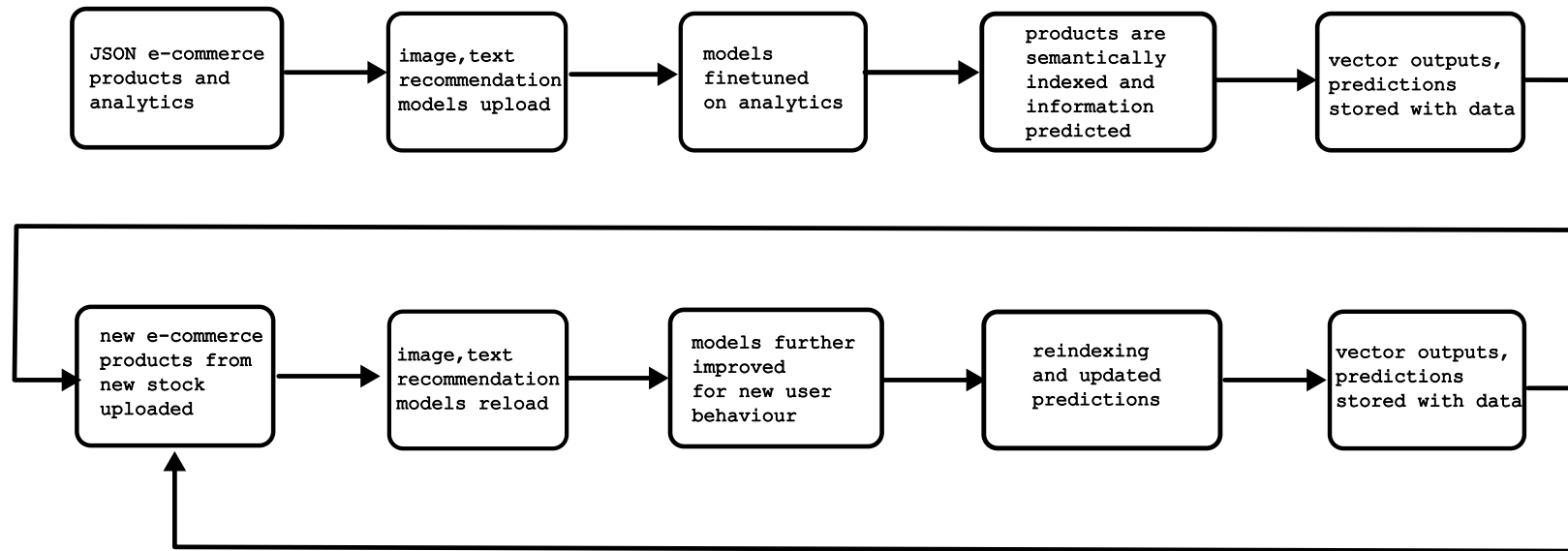# SuperDuperDB minimizes overhead and revolutionizes AI capabilities

- Complex data preparation and processing is no longer required

- AI models can perform entirely new operations by having access to all data

- AI can handle new incoming data and streaming

SuperDuperDB will allow companies to fully own their AI and data stack

The SuperDuperDB core codebase will be open sourced under Apache License 2.0

- Companies will be able to deploy their AI and models in a unified way in their own data centers.
- Their entire stack will be transparent and no longer locked in behind SaaS and cloud providers.

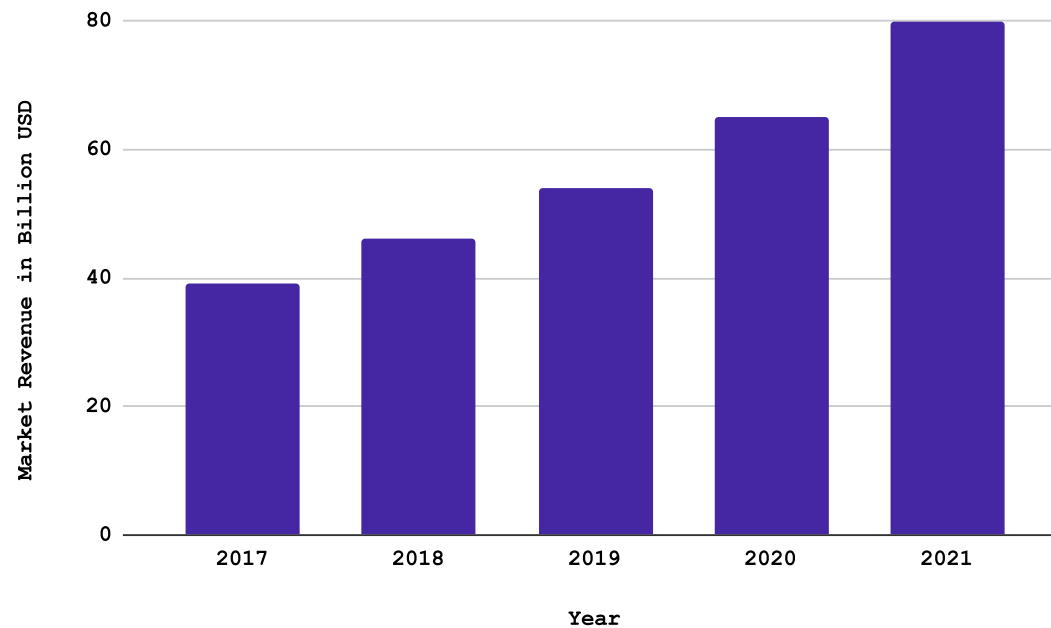# Example: with SuperDuperDB instantly deploy a full-stack of e-Commerce AI

SuperDuperDB enables a variety of well tested business models

- Tiered managed cloud service

- On premises solution with technical support

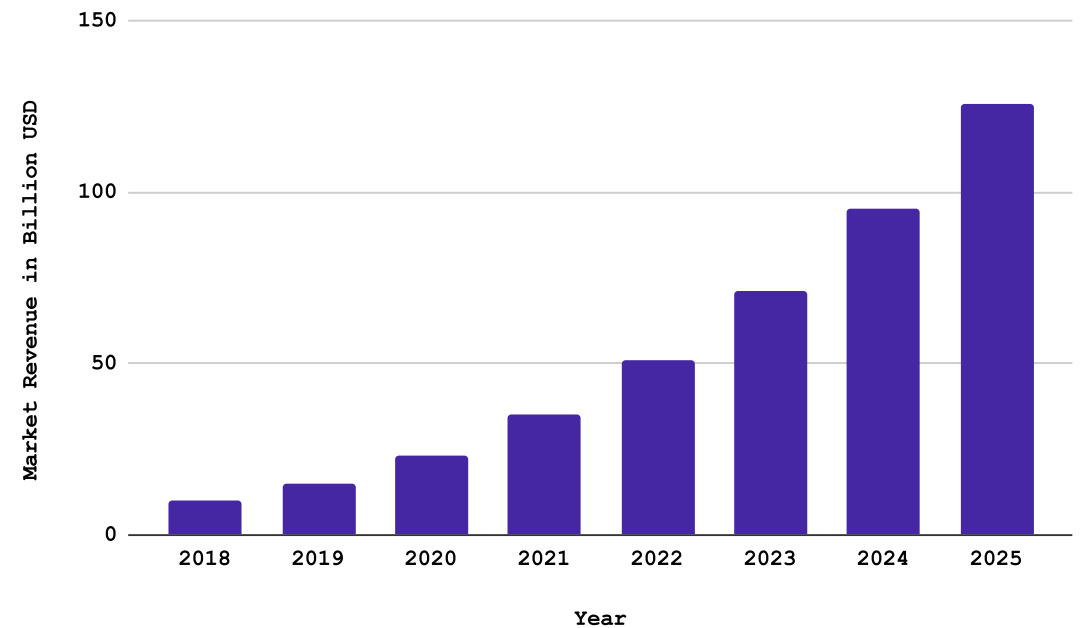- Model repository (like "App Store")

- Consulting

- Certifications

We aim to make large in-roads into DBMS and managed AI

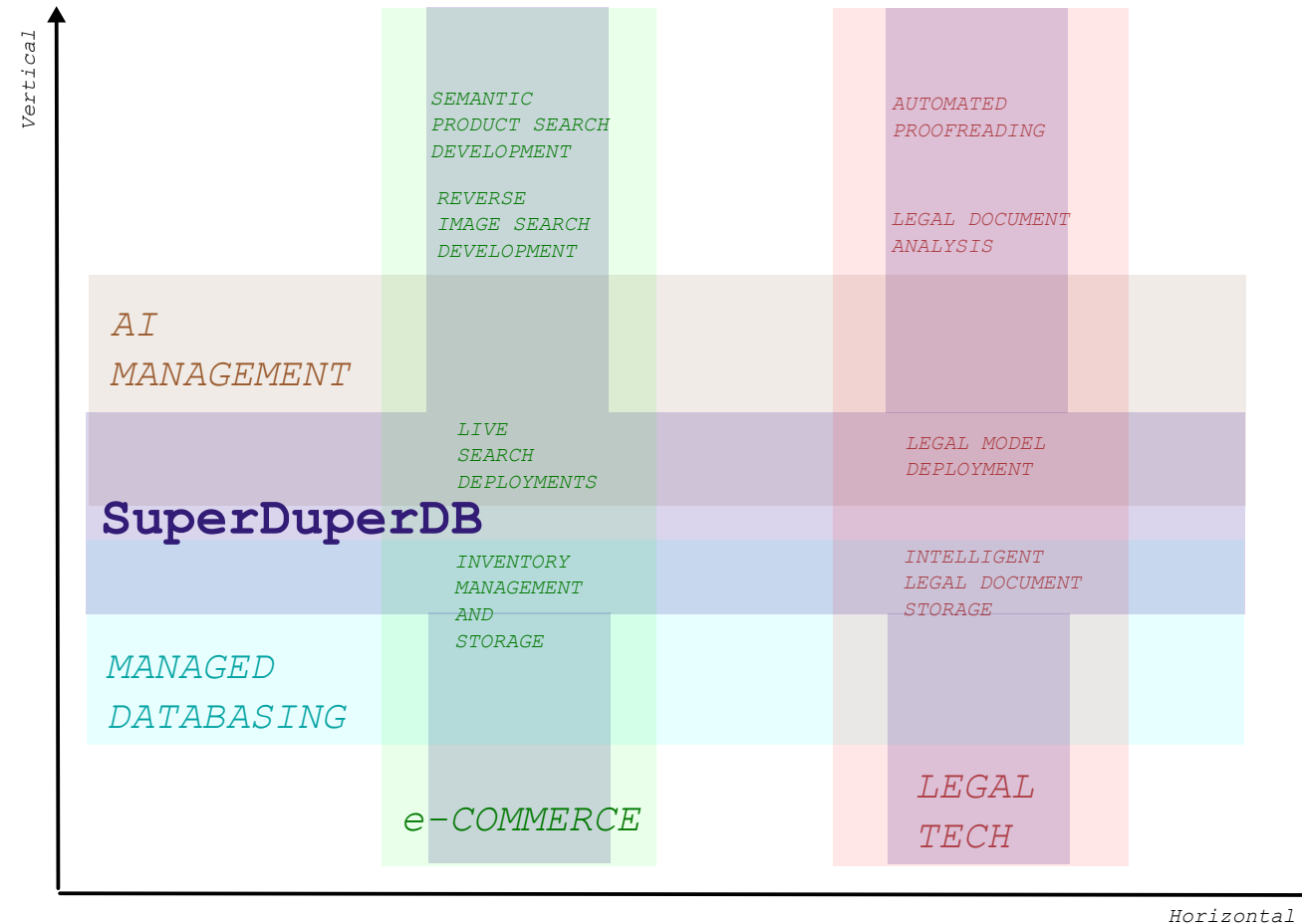Both managed database and AI market are already huge and still growing fast

Using SuperDuperDB will be able to offer outstanding offerings wherever AI provides substantial value

For example

- Legal tech (*e.g. advanced document analysis*)

- e-Commerce (*e.g. search, navigation, recommendation*)

- Biomedical (*e.g. semantic image segmentation*)

- Cybersecurity (*e.g. fraud detection*)

We will build and offer specialized functionalities for key verticals

SuperDuperDB is already in full swing

Progress

- Working prototype v0.1 in Python

- Installable via Python `pip`

- Outstanding feedback from inner developer circle

The founders have a proven combination of skill sets and remarkable joint track record

Duncan Blythe 🔗

Development, AI research

Timo Hagenow 🔗

Operations, marketing, sales

SuperDuperDB draws on over a decade of experience in managed AI

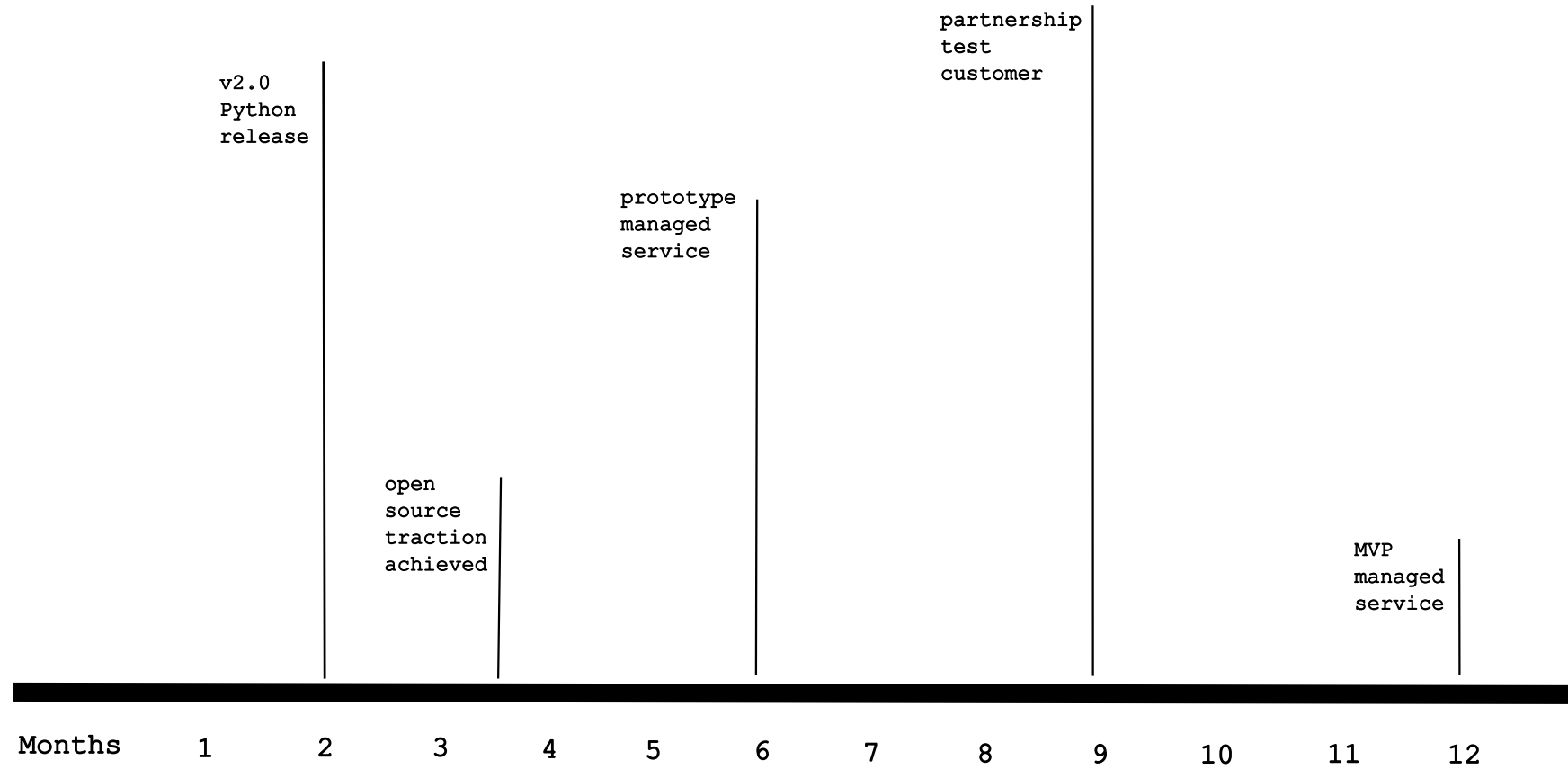**Duncan Blythe 🔗, MMathPhil, MSc, PhD**

- Graduated first in class Oxford Mathematics 2007

- 1,000s citations on AI research, 10,000s of stars on GitHub open source

- Co-founded AI innovation lab lf1.io 2019

- Co-founded and exited alephsearch.com (bootstrapped) 2020 to attraqt.com (WKN A12C9P) with team of 2 for mid 7-figure (press release)

- Led AI integration and strategy at attraqt.com to exit 2022 (press release)

SuperDuperDB will profit from experience in scaling businesses

Timo Hagenow 🔗 **, MBA**

- Founded adtech company yieldlove.com (2013), exited (2017) to market leader stroeer.de (WKN 749399) and scaled annual revenue to over 50 million euro (press release)

- Co-founded AI innovation lab lf1.io 2019

- Co-founded and exited alephsearch.com (bootstrapped) 2020 to attraqt.com (WKN A12C9P) with team of 2 for mid 7-figure (press release)

- Co-founded sheen-ai 2022

Timeline

v2.0
Python
release

partnership
test
customer

prototype
managed
service

open
source
traction
achieved

MVP
managed
service

Months   1   2   3   4   5   6   7   8   9   10   11   12

The Ask

1 year, 1.1 million €

Item	Count	Cost unit (€)	Cost (€)
Python developer	3	80,000	240,000
Cloud engineer	2	90,000	180,000
Research scientist	2	100,000	200,000
Marketing	1	60,000	60,000
Management	1	100,000	100,000
Miscellaneous	1	200,000	200,000