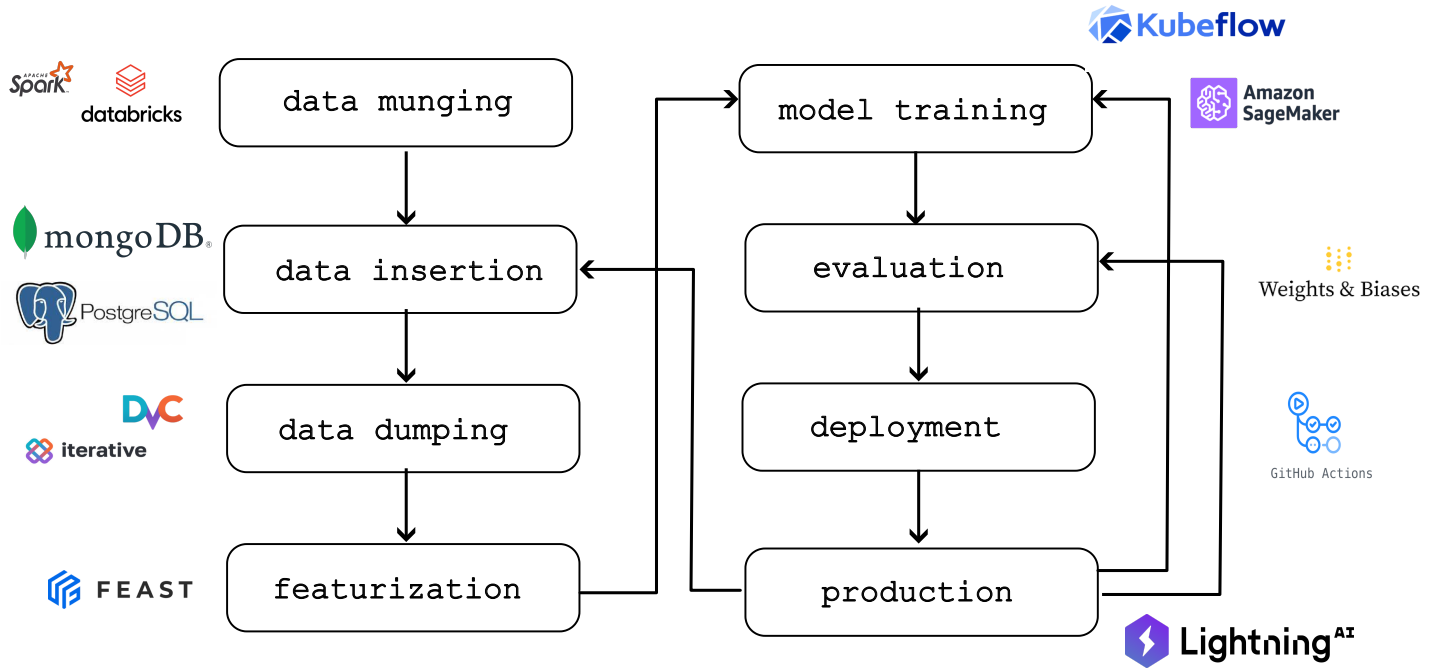
Superpower your database with AI

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 preprocessing 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

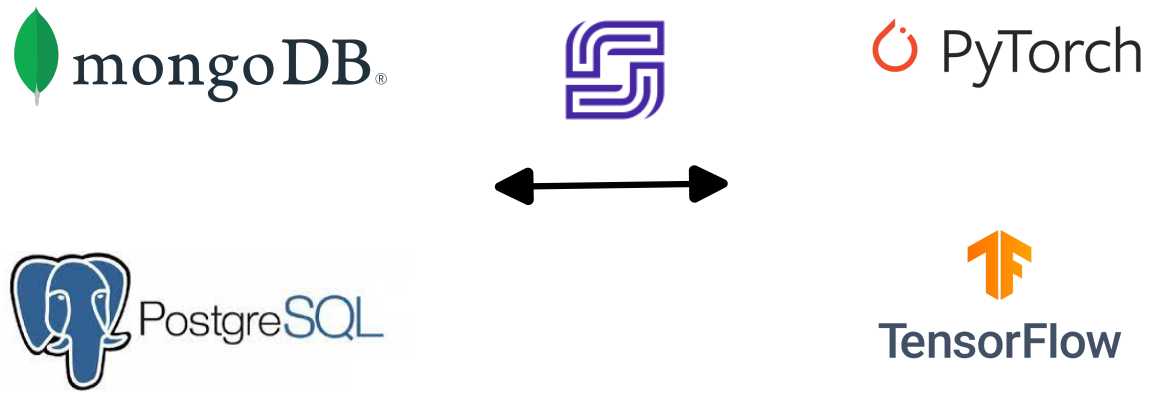
Data and AI need to be fully united in order to maximize their value

Introducing SuperDuperDB

The first fully fledged AI-database solution

SuperDuperDB: Integrating AI directly into your database

Uniting best in class database and deep learning software



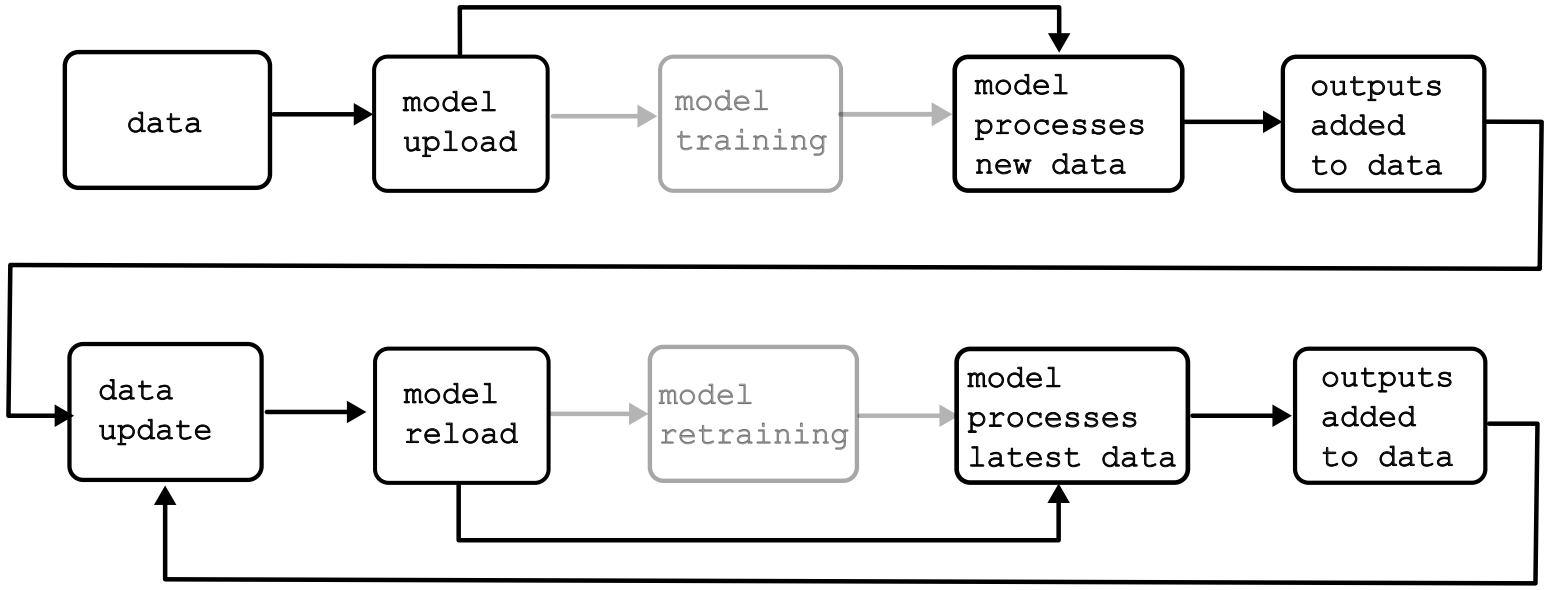
A solution for data scientists designed by data scientists

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 unprecedented 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



Deploy a full stack AI service with a few lines of Python code

Example: e-Commerce semantic text-search, similar product recommendation, reverse image search

```
products.insert_many(product_list)
products.create_semantic_index(
    'shop_index',
    [{'name': 'text-searcher', 'object': text_model, 'key': 'query'},
     {'name': 'product-indexer', 'object': product_model, 'key': 'product'},
     {'name': 'street-image', 'object': image_model, 'key': 'image'}]
)
```

SuperDuperDB minimizes overhead and revolutionizes AI capabilities

- Complex data preparation and preprocessing 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

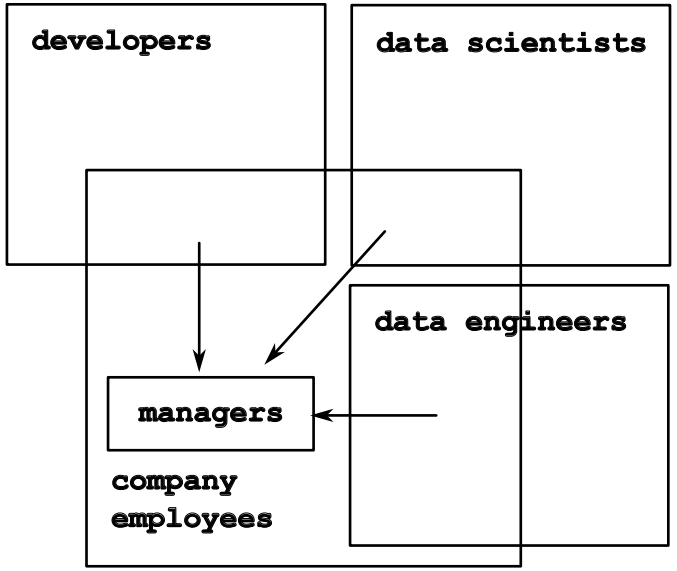
- Companies will be able to deploy their AI and models in a unified way in their own data centers.
- Their entire stack will be transparent and no longer locked in behind SaaS and cloud providers.

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

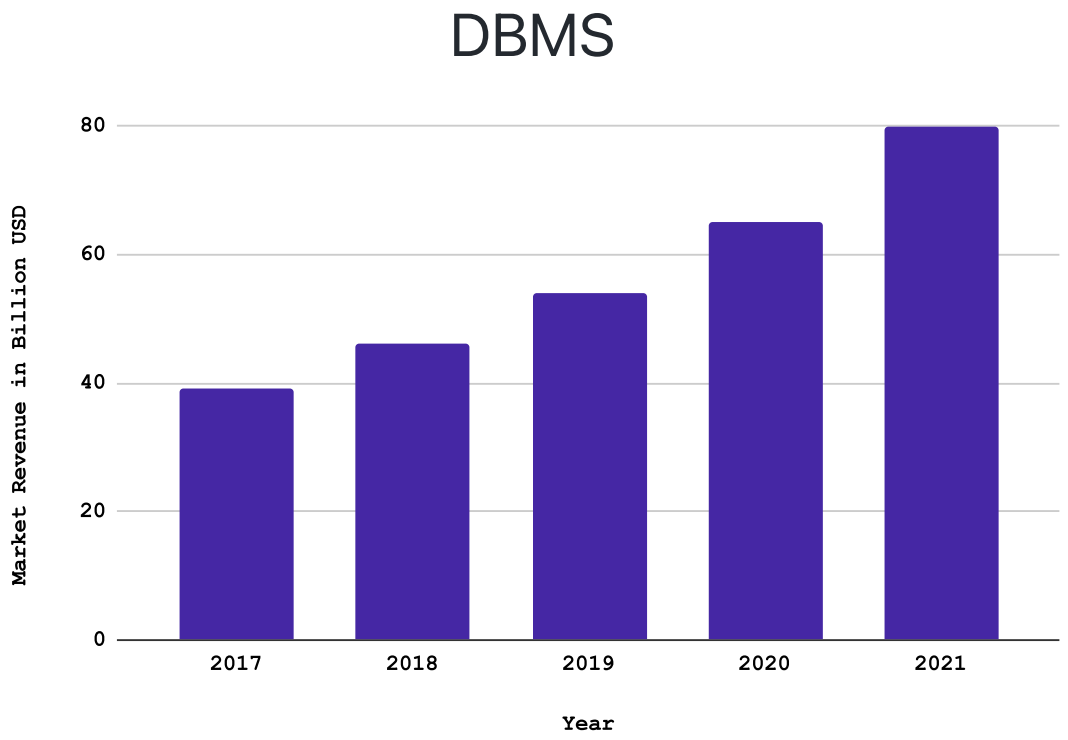
Viral adoption in the developer community

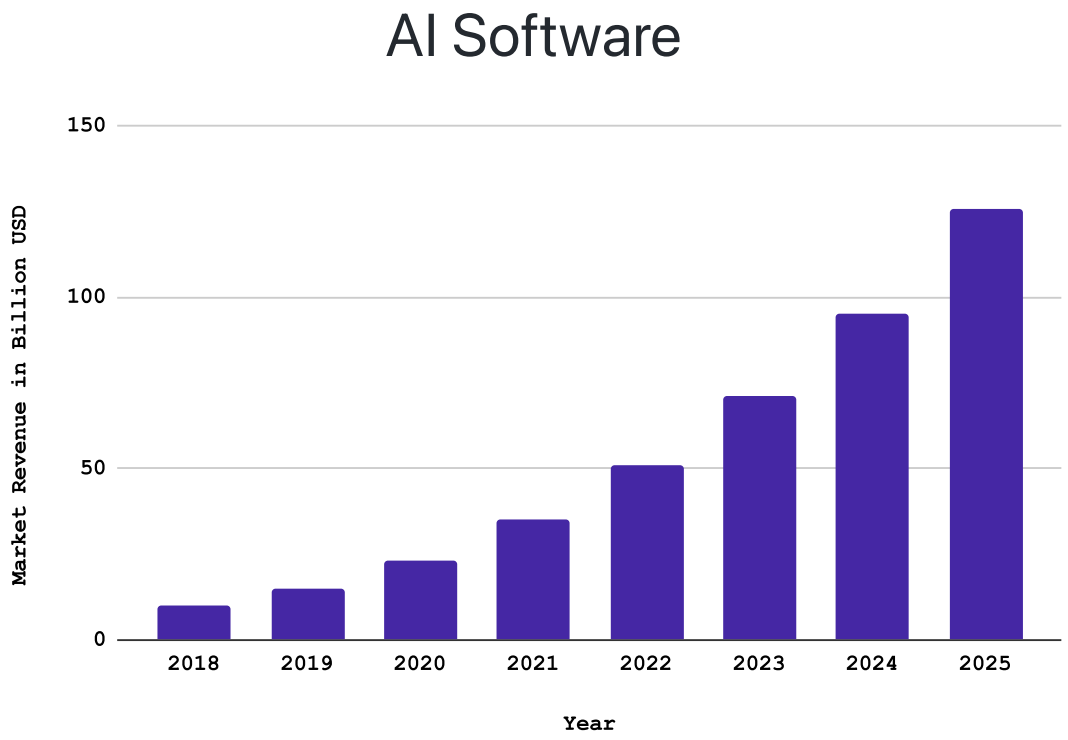
Community interest and adoption drives corporate integrations



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



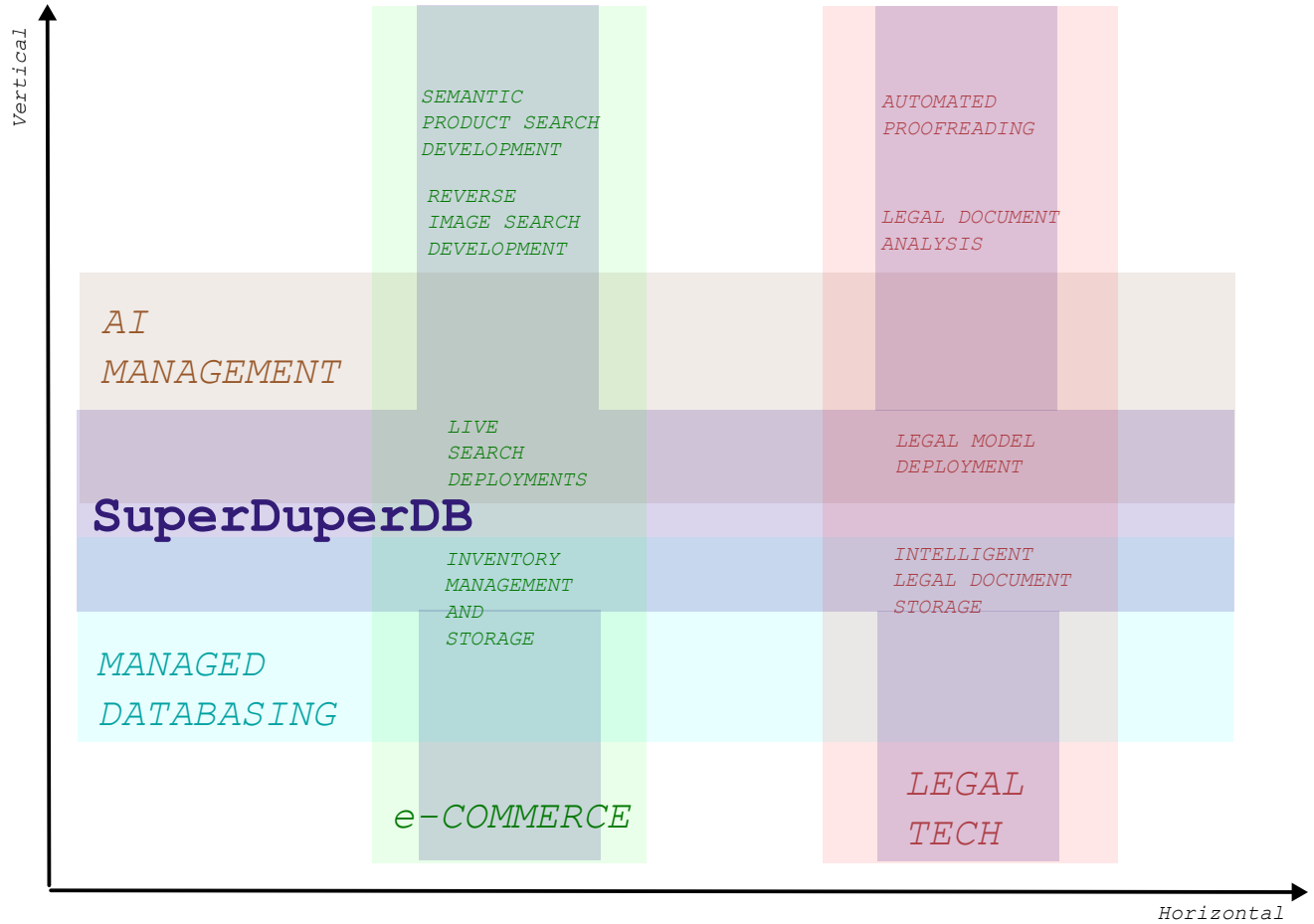


Using SuperDuperDB we will be able to instantly spawn managed services wherever AI provides substantial value

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

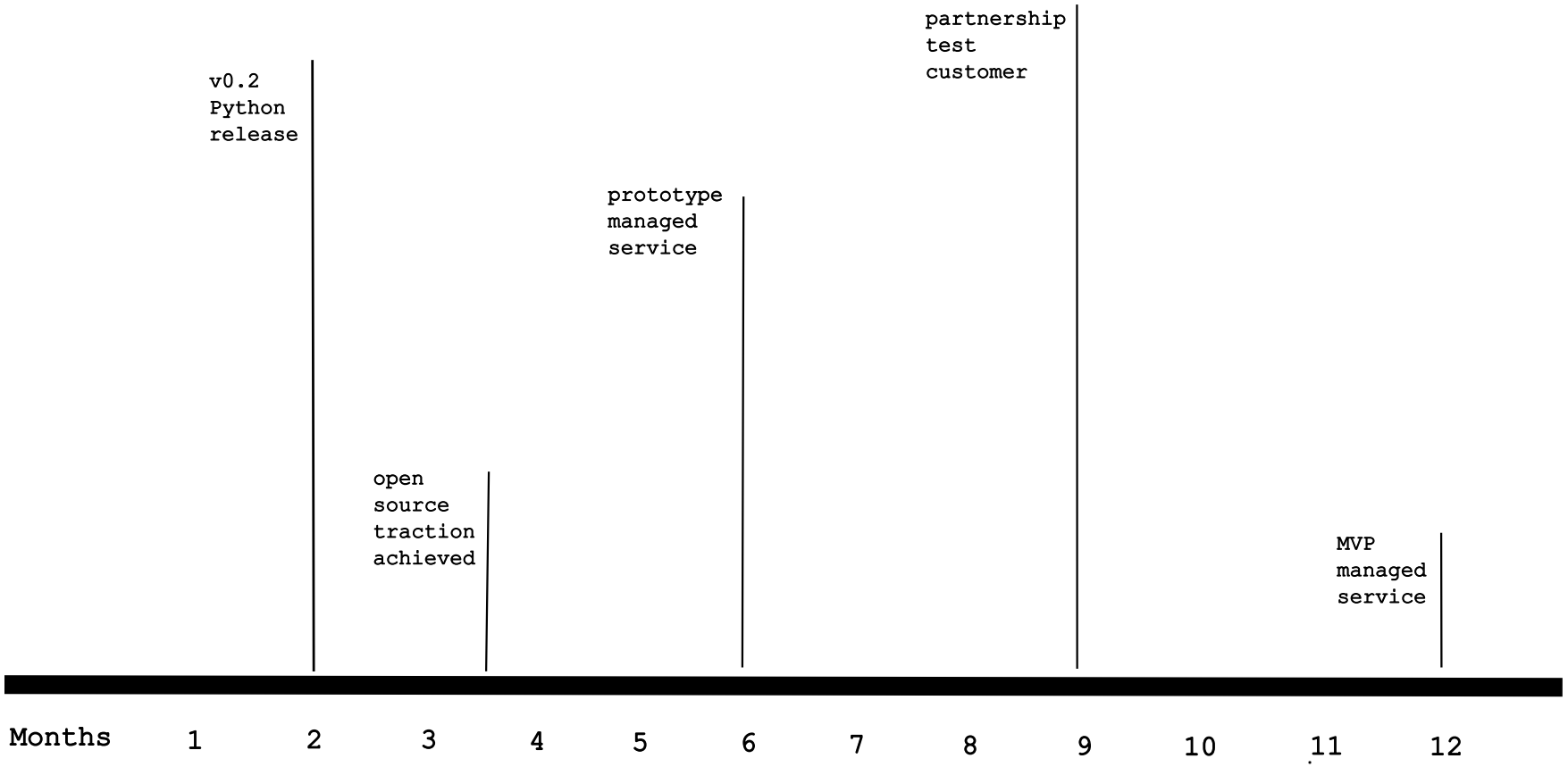
- Graduated first in class Oxford Mathematics 2007
- 1,000s citations on AI research, 10,000s of stars on GitHub open source
- Co-founded AI innovation lab lf1.io 2019
- Co-founded and exited alephsearch.com (bootstrapped) 2020 to attraqt.com with team of 2 for mid 7-figure (press release)
- Led AI integration 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 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 with team of 2 for mid 7-figure (press release)
- Co-founded sheen-ai.com 2022

Timeline: in the initial year we will develop and market-test a rock-solid MVP



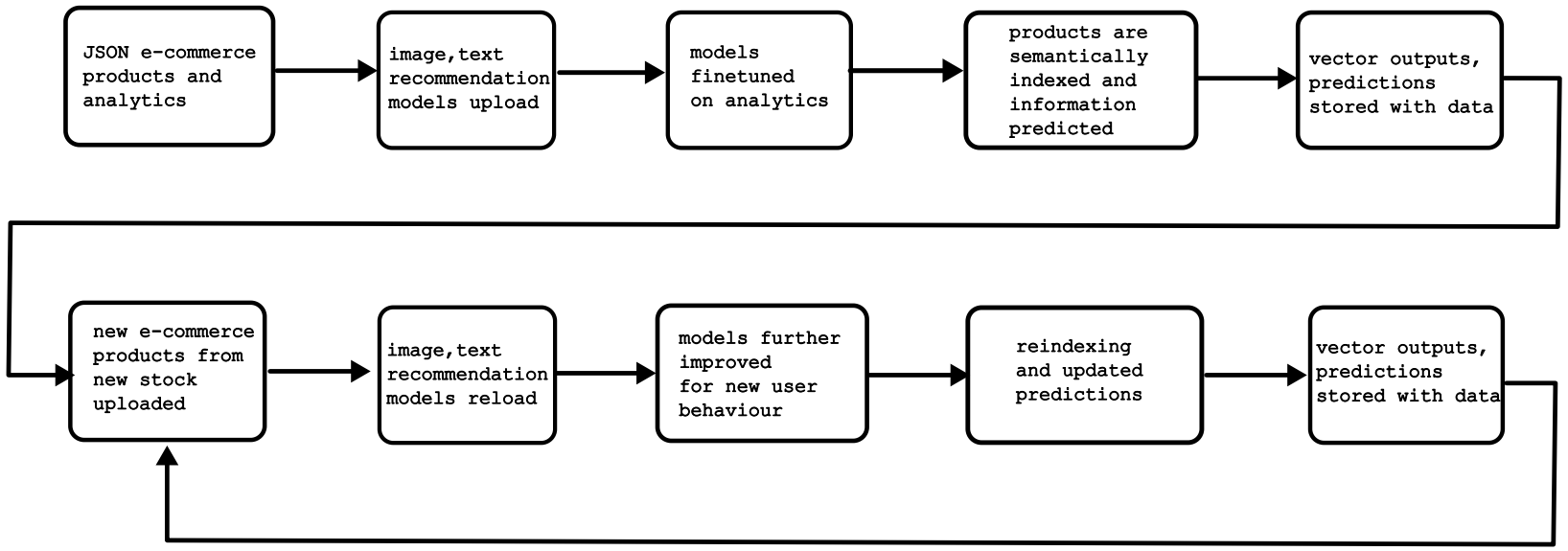
The Ask: 1 year, 1.2 million €

The initial funding will go mainly towards development and research

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
Frontend	1	80,000	80,000
Marketing	2	60,000	120,000
Management	2	100,000	200,000
Miscellaneous	1	200,000	200,000

Additional slides

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



Competition: MindsDB 🔗 is the only apparent competitor in this space

MindsDB's approach is nothing like SuperDuperDB and is not ready for fully fledged modern AI

MindsDB	SuperDuperDB
Predefined models only	Bring any model
Relational	Relational+Object
Inbuilt trainer	Arbitrary training
CPU only	multi-GPU
SQL query	Fully semantic search queries
Small data	Big data
Table data only	Full content: images, text, video

Strategy: Open-core

- Hosting on GitHub with project page and full documentation
- Use standard scaling strategies on GitHub to gain viral adoption
- Basis on most popular components, leads to high adoption:
  - PyTorch (used by openAI)
  - MongoDB (most popular document store)
- Core functionality open-source
- Bells and whistles not included

Strategy: Managed cloud hosted services

- Host fully managed and configurable SuperDuperDB deployments
  - AWS
  - GCloud
  - Azure
- Integration to existing hosted MongoD deployments possible

Strategy: Managed onsite self-hosting

- Compiled binaries for easy self-hosting
- Support and consultation

Strategy: Marketplace

- Marketplace of models and datasets
- Enable third-party sellers to revenue
- Enable friendly agreements with competition e.g. Hugging Face

Strategy: Tune-ups and interfaces

- Open-core contains key-functionality
- Sell licenses for:
  - User interfaces
  - High-level work flows
  - Validation dashboards and management

Strategy: Professional services

- Tiered support
- Certifications
- Coaching and on-site consulting

Strategy: Vertical expansion

- Bespoke models for key use-cases
- In-house team of data-scientists and SuperDuperDB specialists build models
- Integration to hosted or non-hosted SuperDuperDB deployment
- Per-request or per-model pricing possible

Paradigmatic use-cases

- Reuters: news classification and aggregation with AI
- Crunchbase: company recommendation and understanding
- Zalando: full stack AI for semantic navigation and recommendation
- Wikipedia: tag extraction and summarization
- Deutsche Industrie Mittelstand: automated quality control using computer vision
- Cisco systems: anomaly prediction and early threat detection (edited)
- Biontech: drug candidate pre-screening and classification