MADDOX AI by LAYER7 AI

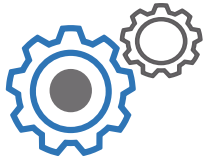**We automate your visual quality control**

Starting point:
What is Layer7 AI all about?

Starting hypothesis: In order to build meaningful AI solutions you (at least) need 3 different skill sets

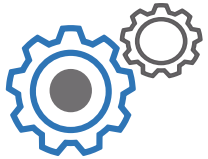Deep expertise in AI

Productization experience

Business Know-How

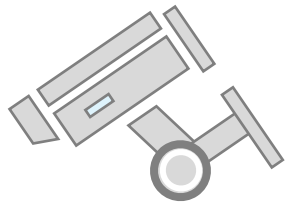# That's why we build our team around these 3 core competences right from the start

This team builds customized AI products for our clients

Use-Case: Automating quality control with AI

The **manual** visual quality control is our target market

Traditional
visual quality control

Mostly based on classic **rule-based software systems**
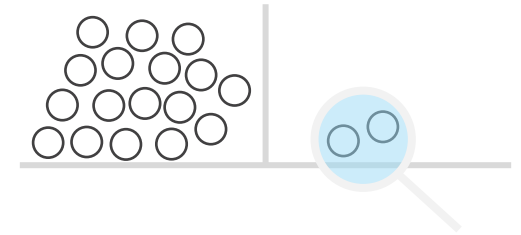
Only applicable to **simple use-cases** – e.g. measuring and counting

100% manual
visual quality control

Based on the **human visual senses**

Often used for **complex uses-cases with high variability** – e.g. surface and texture inspection.

Partially manual
visual quality control

Based on the **human visual senses**

Often used for **complex use-cases with high throughput** rates

Manual visual quality control is a **pain**

- ✕ **Labour cost-intensive**
- ✕ **Slow**
- ✕ **Inconsistent**
- ✕ **Non-improving**
- ✕ **Non-transparent / Non-digital**

Maddox AI **automates** your visual quality control ...

- ✓ **Cost-efficient**
- ✓ **Fast**
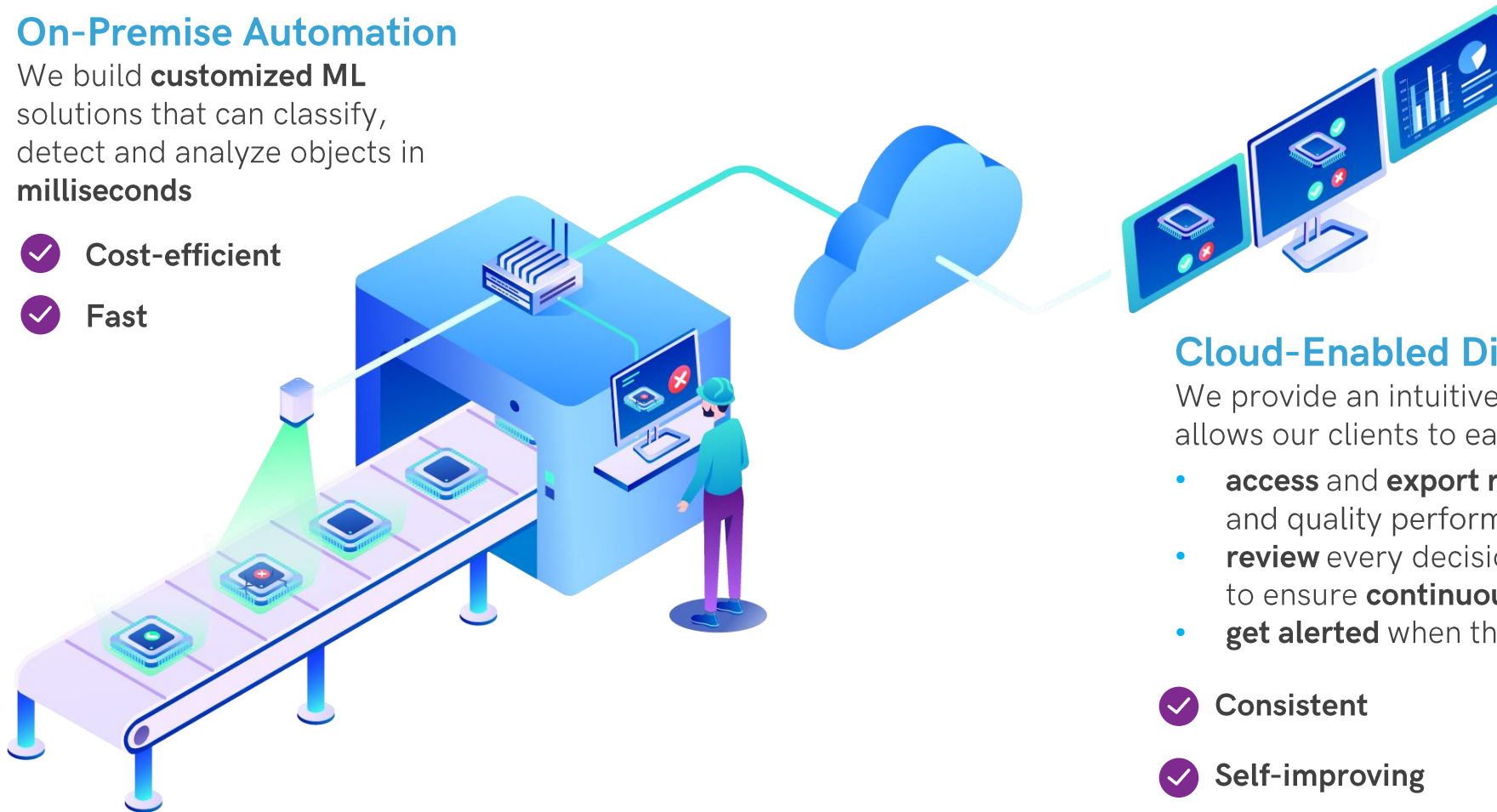- ✓ **Consistent**
- ✓ **Self-improving**
- ✓ **Transparent / Digital**

... through our **end-to-end** solution that requires no prior expertise

On-Premise Automation

We build **customized ML** solutions that can classify, detect and analyze objects in **milliseconds**

- ✓ **Cost-efficient**
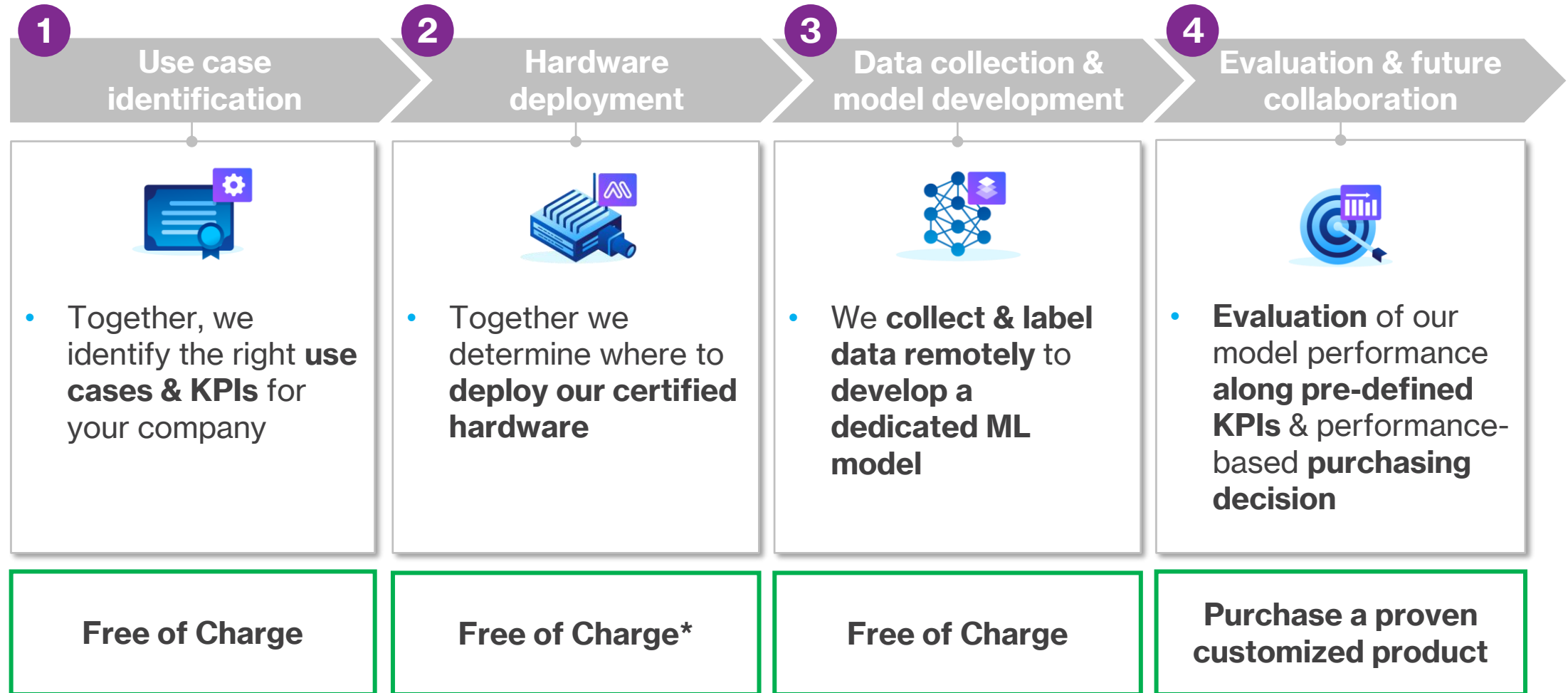- ✓ **Fast**

Cloud-Enabled Digitization

We provide an intuitive web application that allows our clients to easily...

- **access** and **export reports** on production and quality performance
- **review** every decision made by the model to ensure **continuous improvement**
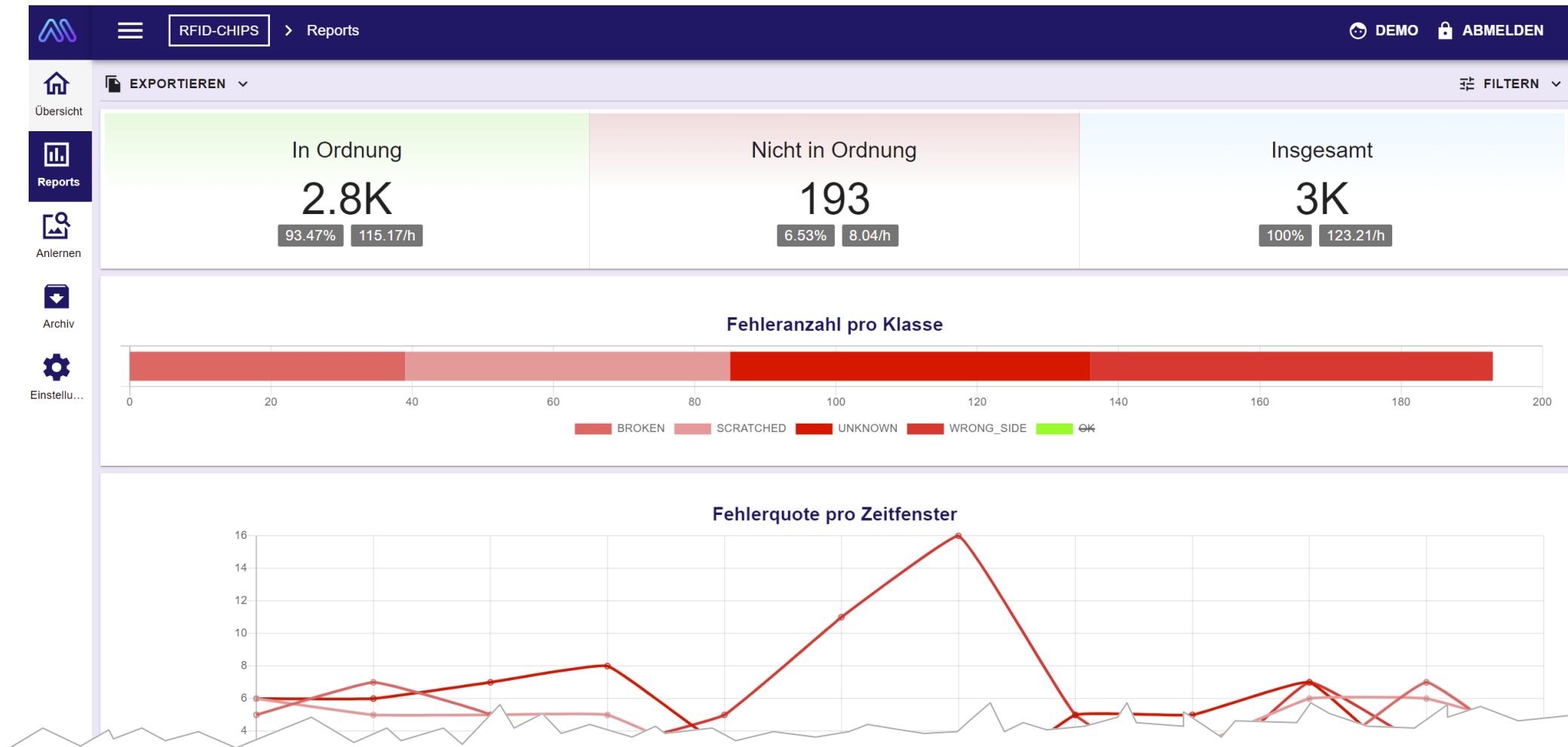- **get alerted** when thresholds are breached

- ✓ **Consistent**
- ✓ **Self-improving**
- ✓ **Transparent and Digital**

Companies can even test our solution **free of charge** following a simple four-step process

① Use case identification	② Hardware deployment	③ Data collection & model development	④ Evaluation & future collaboration
• Together, we identify the right **use cases & KPIs** for your company	• Together we determine where to **deploy our certified hardware**	• We **collect & label data remotely** to develop a **dedicated ML model**	• **Evaluation** of our model performance **along pre-defined KPIs** & performance-based **purchasing decision**
Free of Charge	**Free of Charge***	**Free of Charge**	**Purchase a proven customized product**

*Special hardware setups to be discussed before project start

Our solution does not only exist on paper

MADDOX AI
by LAYER⁷AI

In case you have any additional questions, please do not hesitate to contact us!

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Website: https://maddox.ai/

Appendix

Within this market Maddox AI covers all relevant **inspection use cases** and can be adjusted to your needs

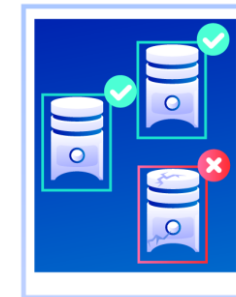**Layer7 AI model functionalities**

Classification
Simple right/wrong or
multi-class breakdowns

Segmentation
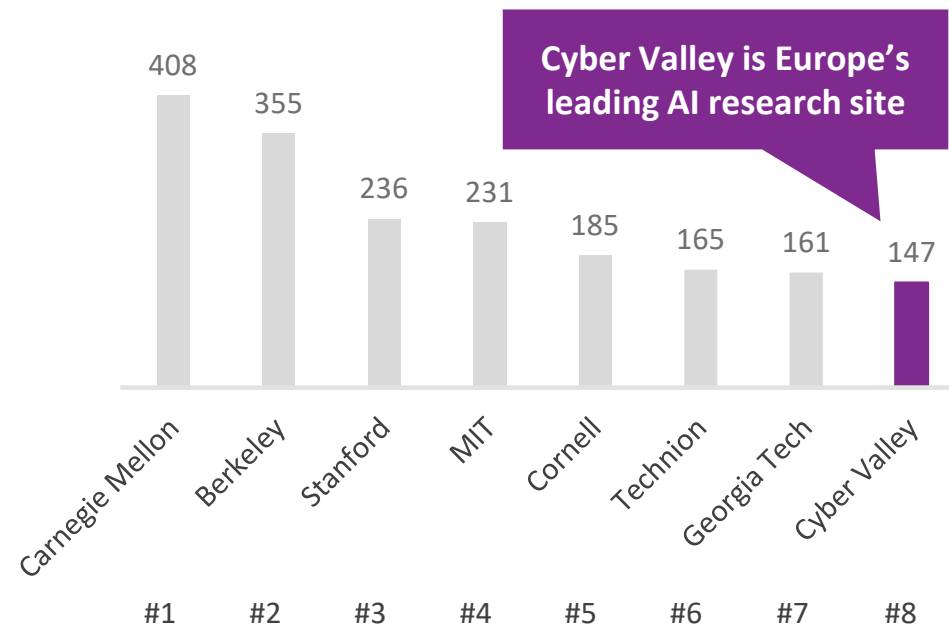Exact localization
of defect

Object detection
Classification of different
objects in one image

Work with us – we combine **leading ML expertise in Europe** with consulting & implementation excellence

AI and computer vision expertise:

Our AI experts are closely associated with Tübingen's scientific community – one of the best in the world

Cyber Valley is Europe's leading AI research site

Chart values:
- Carnegie Mellon: 408 (#1)
- Berkeley: 355 (#2)
- Stanford: 236 (#3)
- MIT: 231 (#4)
- Cornell: 185 (#5)
- Technion: 165 (#6)
- Georgia Tech: 161 (#7)
- Cyber Valley: 147 (#8)

Top research institutions based on number of paper accepted at top two AI conferences (NeurIPS & ICML)[1] (2009 – 2019)

1. Source: CSRankings, Cyber Valley analysis

Business expertise:

Our team provides a clearly structured and battle-proven methodology how to identify, test, and implement AI use cases

Professional experience at: **BCG**

Software engineering expertise:

Our experienced software engineers provide the skill-set for building robust, safe and user-friendly applications

Professional experience at: **IBM**