Research & Development Initiative

Accelerating innovation with AI and VR

Empowering Small Medium Enterprises with AI & VR

Our Research & Development Initiative helps small and medium-sized enterprises implement AI solutions to solve complex challenges.

We focus on fields like automation and computer vision, using a combination of narrow AI models and Virtual Reality

- We help you find opportunities where automation can improve productivity or lower costs.
- We handle the initial research & development.
- We deliver a proof-of-concept at no cost to you.
- We provide a detailed analysis outlining our findings and the project's feasibility.

Our Step-by-Step Approach

Understanding Your Needs

We start by sitting down with you to understand your specific challenges and goals and we clearly define what success looks like for your project.

1

Digital Twin

2

Creation of a digital replica of your operational environment and generate synthetic data that is tailored to your specific needs, ensuring the AI model learns from relevant and accurate information.

AI

3

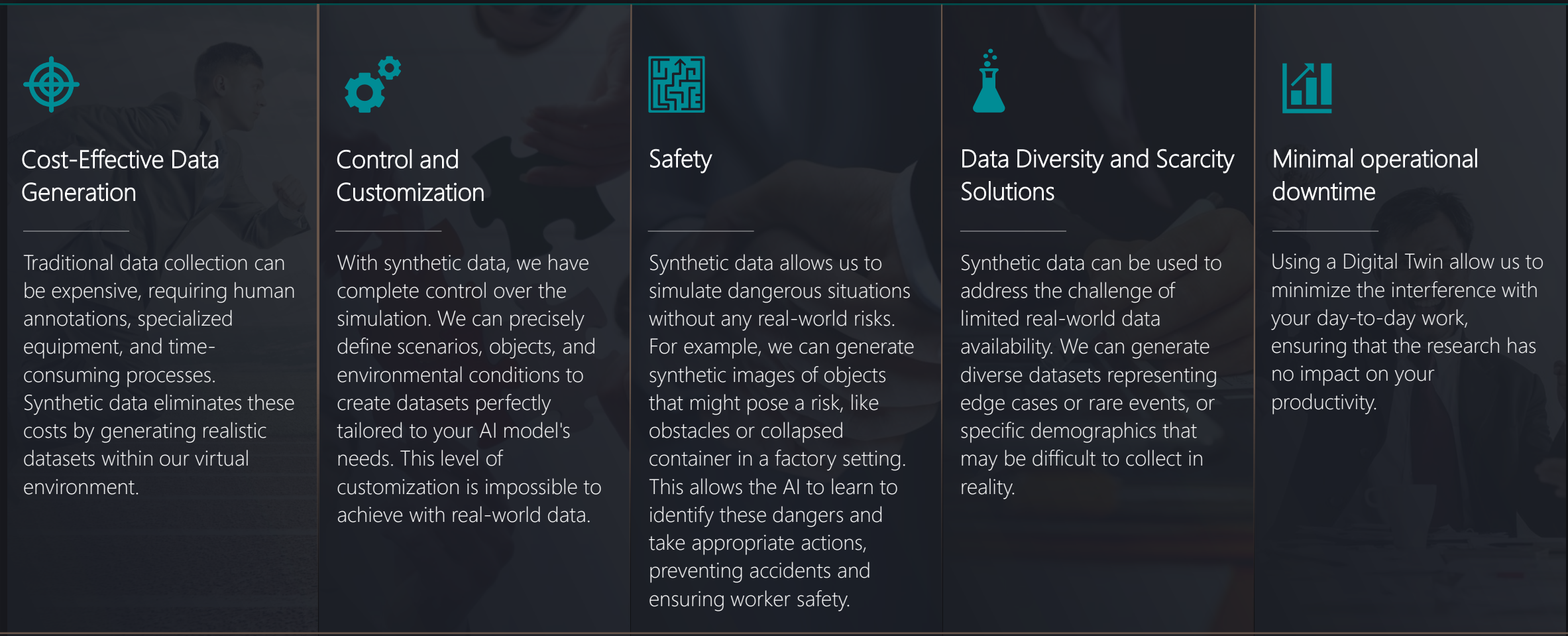
Training a narrow AI model using synthetic data, optimizing it for your particular task.

Evaluation

4

We provide a comprehensive report outlining the AI's performance, feasibility, and potential impact on your operations.

Leveraging Synthetic Data for AI



Cost-Effective Data Generation

Traditional data collection can be expensive, requiring human annotations, specialized equipment, and time-consuming processes. Synthetic data eliminates these costs by generating realistic datasets within our virtual environment.

Control and Customization

With synthetic data, we have complete control over the simulation. We can precisely define scenarios, objects, and environmental conditions to create datasets perfectly tailored to your AI model's needs. This level of customization is impossible to achieve with real-world data.

Safety

Synthetic data allows us to simulate dangerous situations without any real-world risks. For example, we can generate synthetic images of objects that might pose a risk, like obstacles or collapsed container in a factory setting. This allows the AI to learn to identify these dangers and take appropriate actions, preventing accidents and ensuring worker safety.

Data Diversity and Scarcity Solutions

Synthetic data can be used to address the challenge of limited real-world data availability. We can generate diverse datasets representing edge cases or rare events, or specific demographics that may be difficult to collect in reality.

Minimal operational downtime

Using a Digital Twin allow us to minimize the interference with your day-to-day work, ensuring that the research has no impact on your productivity.

The Benefits of Narrow AI

Task-Specific

Narrow AI is designed to be fast and excel at a single, well-defined task

1

2

Quick Deployment

We can quickly train and deploy narrow AI models tailored to your exact needs.

Low Hardware Requirements

Allows for an effective use of resources and real-time applications.

4

3

Resource-Efficient

Training and maintaining narrow AI models is significantly less resource-intensive than developing general AI, allowing us to offer more affordable solutions.

Airport luggage carts monitoring system

In this example, an AI is trained to count available carts and send alerts when the number falls below a certain threshold. This is done over a series of cameras along the entire airport.

By using this system, operators can intervene only when and if needed with greater efficiency, remaining free for other tasks.

The simulated scene in virtual reality procedurally creates different combinations that would be impractical and expensive to reproduce in real life.

Shared Risk, Shared Success

By sharing the initial risk, we empower you to explore the transformative potential of AI without significant upfront investment.

Our goal is to create a sustainable ecosystem where successful projects fuel further innovation and benefit both our company and our clients.

From PoC to production we help you find the best economic collaboration that ensure mutual gains.

Selective investment

We carefully select a limited number of promising projects each year that align with our vision and expertise.

Self-Funded Proof-Of-Concept

We invest our own resources to take these projects from initial idea to a tangible proof-of-concept.

Production Ready

If the PoC is successful you can bring the product to reality by taking minimal risks.

Fine-tuning the model with real data shorten time to production.

Integration

Not only AI and research, we offer full integration in your systems.

Complete with compelling applications with custom UI design or services, both on premises and cloud.

Thank you

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