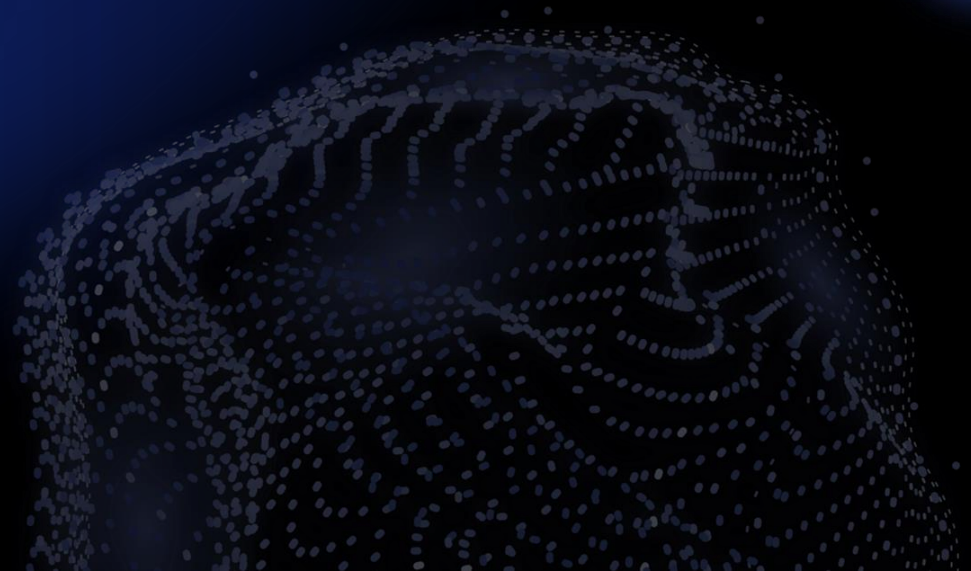
R3AL.AI

pip install r3alai

TRANSFORMING AI WITH RELIABILITY, EFFICIENCY, SCALABILITY, AND SUSTAINABILITY



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THE PROBLEM

THE CHALLENGES IN AI TODAY

KEY POINTS:

NOISY OR INCOMPLETE DATA:

Traditional AI struggles to handle real-world variance, resulting in inaccurate predictions and low certainty.

COMPUTATIONAL INEFFICIENCY AND SUSTAINABILITY:

SOTA AI models require high computational power, emitting significant CO2, making them costly and environmentally unsustainable.

OVERFITTING:

Models overly tailored to training data fail in unseen environments, limiting reliability.

DATA REQUIREMENTS:

SOTA AI models demand vast amounts of high-quality training data, which is costly and difficult to collect for many companies.

THE SOLUTION

R3AL.AI's – Software Development Kit Python package

KEY POINTS

CORE INNOVATION:
Robust uncertainty quantification for accurate, reliable predictions. This is our own novel approach from: https://www.epistemic-ai.eu/

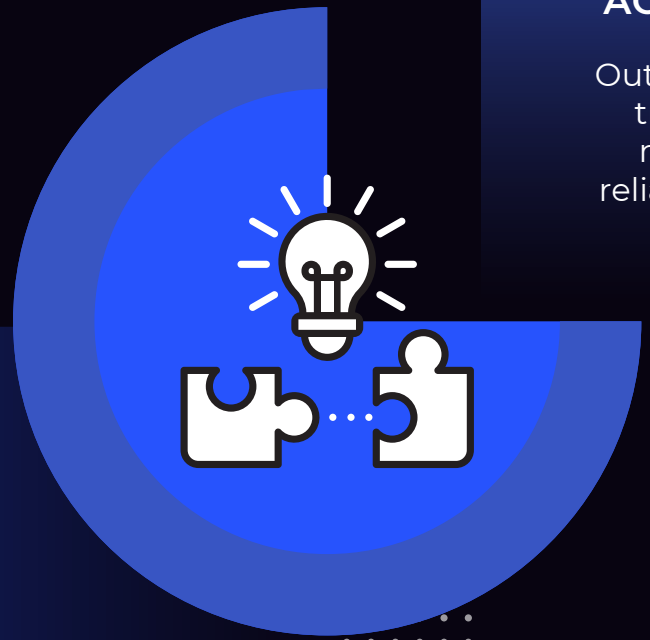
KEY ACHIEVEMENTS

SUPERIOR ACCURACY:

Outperforming traditional models in reliability tests.

SUSTAINABILITY FOCUS:

Reduced computational power requirements to lower CO2 emissions.



40%

Reduction in Inference Time compared to SOTA.

DATA EFFICIENCY

Operates accurately with less data and excels in handling Out-of-Distribution (OOD) data, making it ideal for real-world applications.

EARLY TRACTION

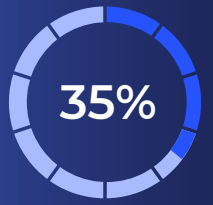
PROGRESS WITH POLYSENSE

KEY POINTS

PILOT PARTNER:
Polysense.ai

ASSUMPTIONS FROM EARLY TESTING:

COST REDUCTION:
Potentially lowering AI resource costs by **30%**.



EFFICIENCY GAINS:
Improving inference speed by **35%**.

SUSTAINABILITY IMPACT:

Projected reduction in CO2 emissions due to optimized computational requirements.

NOTE:

Polysense is very interested in our SDK and has given us valuable feedback which we are integrating in our first module.

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MARKET OPPORTUNITY

GLOBAL AI MARKET GROWTH AND TAM

KEY POINTS

MARKET SIZE:

$196.6 billion in 2023, projected to grow at

36.6%
CAGR through 2030.

TAM (TOTAL ADDRESSABLE MARKET):

companies actively developing their own AI models is significant, with projections indicating a market size exceeding $100 billion by 2025

TEAM

MEET THE VISIONARIES BEHIND R3AL.AI

ARSHIA SHARIATMADAR

FOUNDER

Expertise in business strategy, sales & marketing

KEIVAN SHARIATMADAR

FOUNDER

Senior researcher with a track record in AI R&D.

MARKET IMPACT

HOW R3AL.AI SAVES COSTS AND THE PLANET

KEY POINTS:

COST SAVINGS

Companies using SOTA models currently spend hundred of thousands even millions annually on computational resources

R3al.AI reduces these costs by up to **40%**, saving significant financial resources.

SUSTAINABILITY IMPACT

SOTA models emit tons of CO2 annually.

R3al.AI lowers CO2 emissions by **30-40%**, making AI environmentally viable.

SIMULATION EXAMPLE

Example Company X spends $1M annually on SOTA AI models. With R3al.AI, they save **$400K** and significantly reduce their environmental footprint.

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Business Model

REVENUE STREAMS

Open-source model for community adoption (HuggingFace).

Subscription model for access to our premium modules from our SDK.

API licensing from our SDK for pay-per-use model.

Consultancy and analytics services for tailored solutions.

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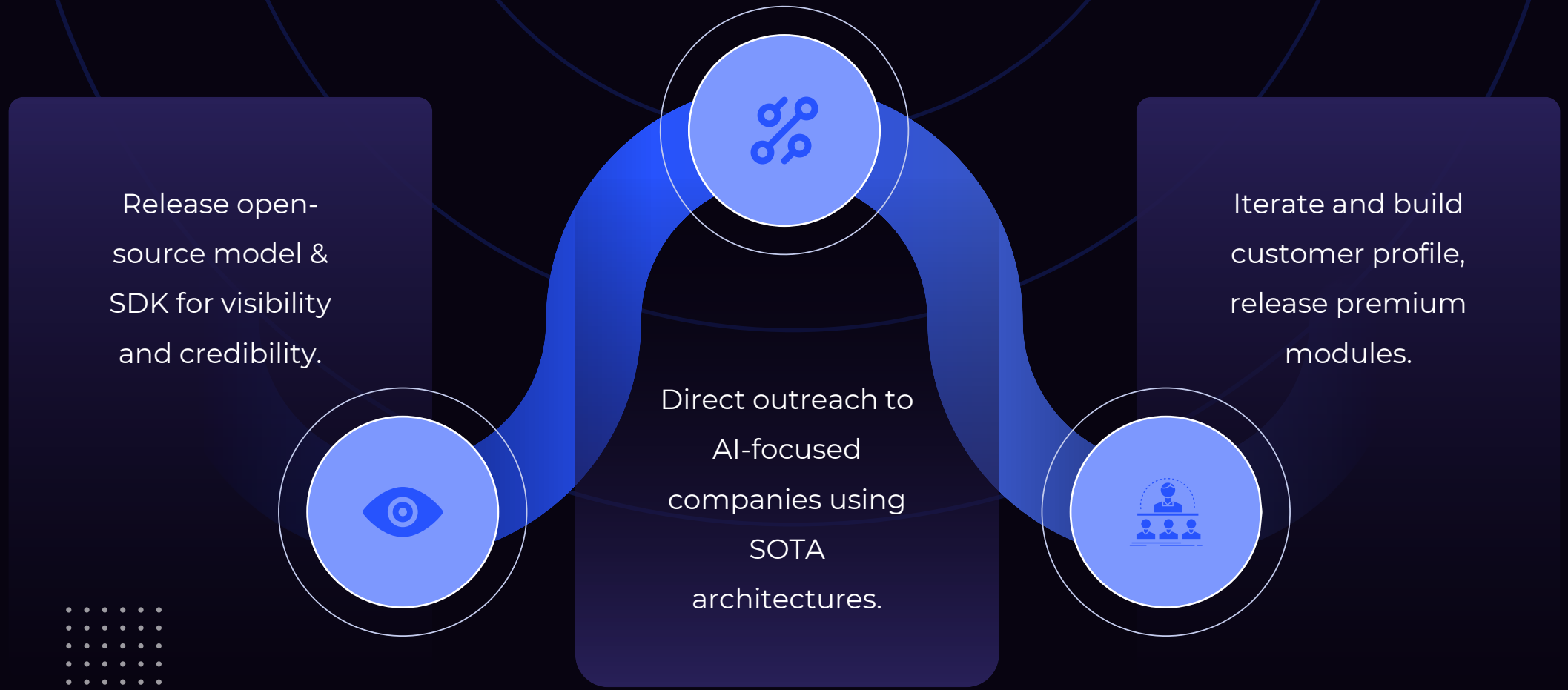
GO-TO-MARKET STRATEGY

PATH TO MARKET LEADERSHIP

KEY POINTS:



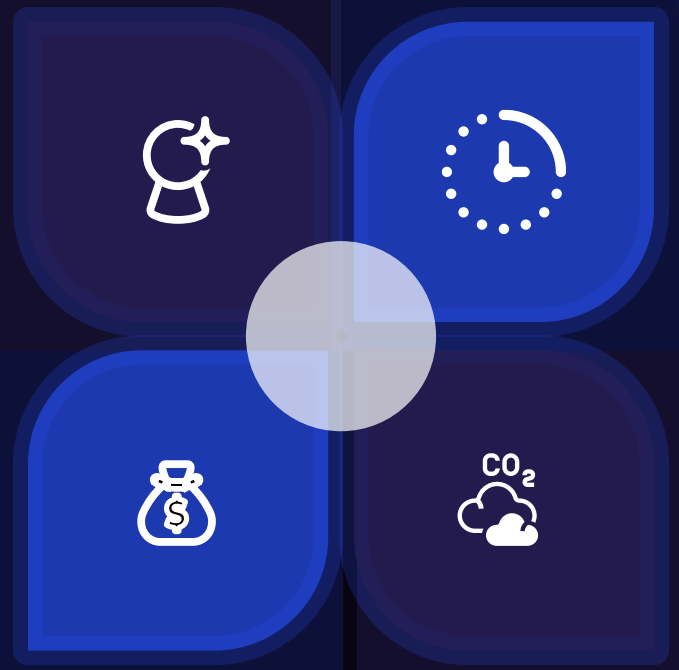
COMPETITIVE ADVANTAGE

WHAT MAKES R3AL.AI UNIQUE

KEY DIFFERENTIATORS

SUPERIOR ACCURACY:

Reliable predictions with quantified uncertainty.



SCALABLE DESIGN:

Optimized for real-time and diverse applications. Can be used in any AI architecture (vision, LLM's, voice, etc...)

LOWER COSTS:

Reduced data input & computational and environmental resources.

SUSTAINABILITY

Models designed to minimize carbon emissions while delivering high performance.

R3AL.AI

Redefining AI performance—through efficiency and sustainability.

CONTACT DETAILS:

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