

**SYVORA**

ACCELERATING  
EMBEDDED INTELLIGENCE

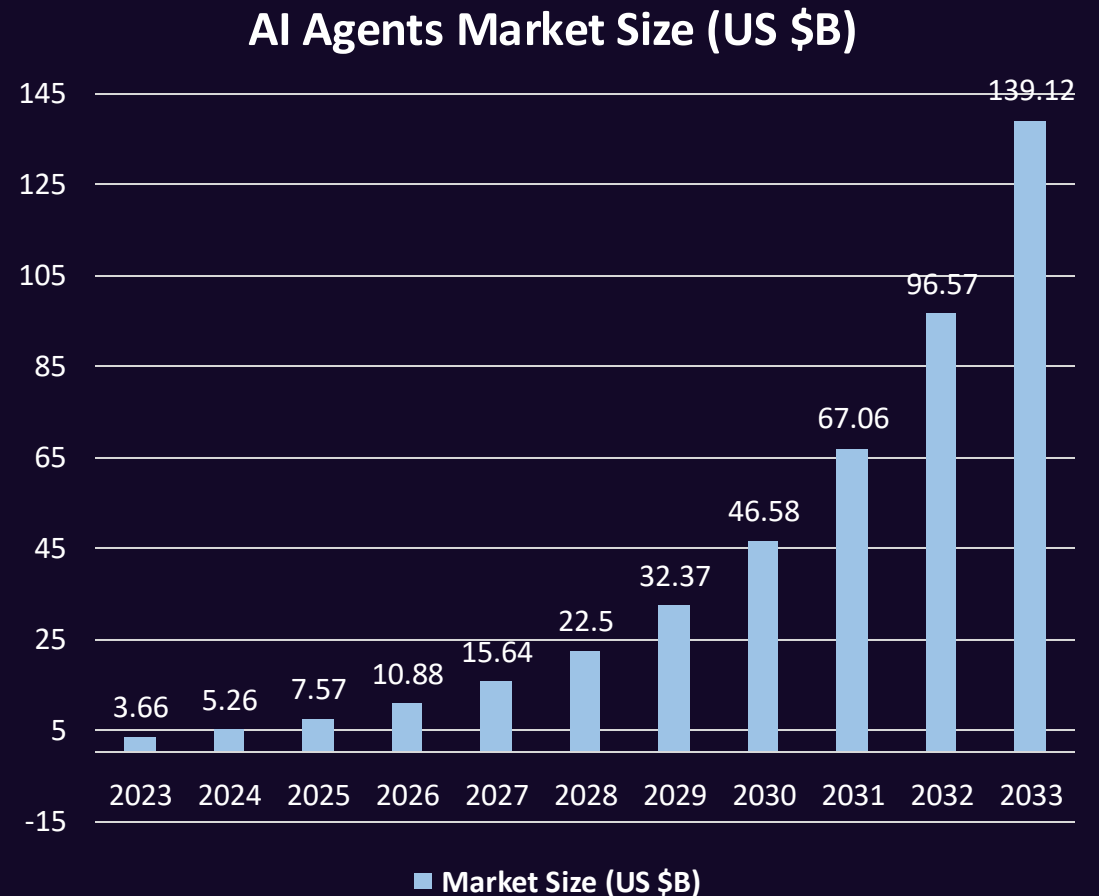


YC Spring  
2025  
Application

Syvora Team  
Feb 2025

# AI Agents slated for exponential growth

- AI Agents Market expected to grow from **US \$3.66B** in 2023 to around **US \$139.12B** in 2033 at a CAGR of **43.88%**
- **Ready-to-deploy agents** had dominant market-share in 2023 with **69.19%** of the market
- These agents expected to increase global GDP by **26% by 2030**



Source: Market.us, Dec 2024

# Environmental Concerns with AI Proliferation\*

- E-waste
  - Only 22 per cent of e-waste is recycled and disposed of in an environmentally sound manner & with exponential growth of AI Data Centers, this is currently a big concern\*
- Water
  - It is estimated that the global demand for water resulting from AI may reach 4.2–6.6 billion cubic metres in 2027 (This would exceed half of the annual water use in the United Kingdom in 2023)\*
- Energy Consumption
  - Large language models (LLMs), driving a significant increase in energy use
  - Single LLM query requires 2.9 watt-hours of electricity (Inferencing), compared with 0.3 watt-hours for a regular internet search\*
  - Training a single LLM generates approximately 300,000 kg of carbon dioxide emissions, “which is five times the lifetime emissions of an average car or equivalent to 125 round-trip flights between New York and Beijing”\*

\* UN Issue Note, 09/24, Artificial Intelligence (AI) end-to-end: “The Environmental Impact of the Full AI Lifecycle Needs to be Comprehensively Assessed”




# Few Trends...

- Accelerated Adoption of S(L)LM's
- Faced paced research & results around Knowledge Distilling & Reinforcement Learning (*reference a couple of results from DeepSeek paper*)
- Mature recipes for domain specific distilling from larger general purpose models (eg Llama 3.2 405B) to smaller models (eg Llama 3.2 2B)
- Voice LLMs driving low-latency real-time voice agents
- Continuously enhancing AI acceleration capability in lower end SoC's (***Qualcomm Snapdragon, Mediatek Dimensity, AMD Versal, NVIDIA Jetson Nano***, and many edge-AI semiconductor start-ups etc)

# Important Predictions & Challenges

- The HMI (Human-Machine-Interaction) is on the verge of being disrupted, driven by Voice based AI Agents
  - Every hardware device, appliance, machines hungry to become intelligent (ex. the legendary "sentient" car Herbie from Walt Disney's "The Love Bug" becoming a reality)
- Accelerated movement of LLM inferencing to the edge
- Key challenges to making these embedded devices intelligent & transforming their interaction with humans:
  - Optimized S(L)LLM's for resource constrained hardware
  - Knowledge Distilling from general purpose SOTA large LLMs to these S(L)LLM's
  - How to enable domain specific business experts to drive all of the above

# SYVORA: Solution Components

AI-Capable Hardware		sLLM Adaptation Platform	Low Code/No Code Agentic Workflow Authoring	SDKs for Integration
	Small	<ul style="list-style-type: none"><li>- Hardware Optimization</li><li>- LLM Adaptation<ul style="list-style-type: none"><li>- Distillation</li><li>- Domain Adaptation</li></ul></li></ul>	<ul style="list-style-type: none"><li>- A low code platform for authoring agentic workflows for multiple use cases</li></ul>	<ul style="list-style-type: none"><li>- SDK Based integration with the product (eg. Electric Vehicle, Smart home device, plant machinery etc)</li></ul>
	Medium			
	Large			

# Introducing *Syvora*: Enabling Embedded Intelligence

- Syvora enables AI-native devices with on-edge intelligence
- We provide:
  1. **AI-optimized hardware** – Cost-effective, scalable hardware for on-device AI inferencing across industries.
  2. **Comprehensive software stack** – Tools for domain adaptation, LLM distillation, and optimization tailored to device constraints.
  3. **Platform for Authoring Agentic Workflows** – A platform to author personalized agentic workflows, through pre trained LLMs
  4. **SDKs** – To integrate with the environment.
- With **Syvora**, businesses can build truly **autonomous, intelligent devices**—from EVs to home appliances—unlocking real-time AI capabilities **without reliance on the cloud**

# Our Team

## Agastya Seth

- Completing his post grad at Arizona State University in May 2025
- Part of Cogint NLP lab, co-authored papers on LLM Safety & ...
- Worked as a software engineer for 3 years at Cadence

## Aditya Seth

- Graduated from BITS Pilani, Hyderabad in 2024
- Working as a software intern at Cadence
- Worked upon deployment on cutting edge ML Models.

## Yash Tomar

## Anurag Seth

[linkedin.com/in/anuragseth](https://www.linkedin.com/in/anuragseth)

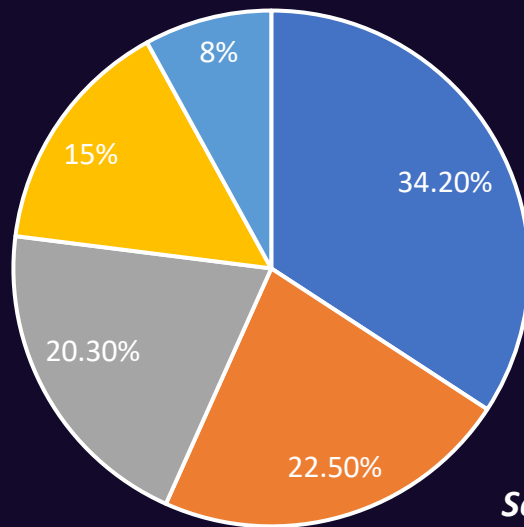


- Senior Advisor
- GenAI Thought Leader
- 30 Years experience in deep tech – semiconductor chip design, EDA, taking multiple cloud & native AI/GenAI/ Deep-Learning applications to production
- Managed large x-functional, x-geo product teams
- Served as Principal AI/ML Advisor at Amazon AWS and nurtured the AI/ML Startup eco-system in APAC
- Senior management roles at Cadence, Motorola, Kawasaki
- Entrepreneurship, Venture Capital & Startup Mentoring



# Embedded Systems Market

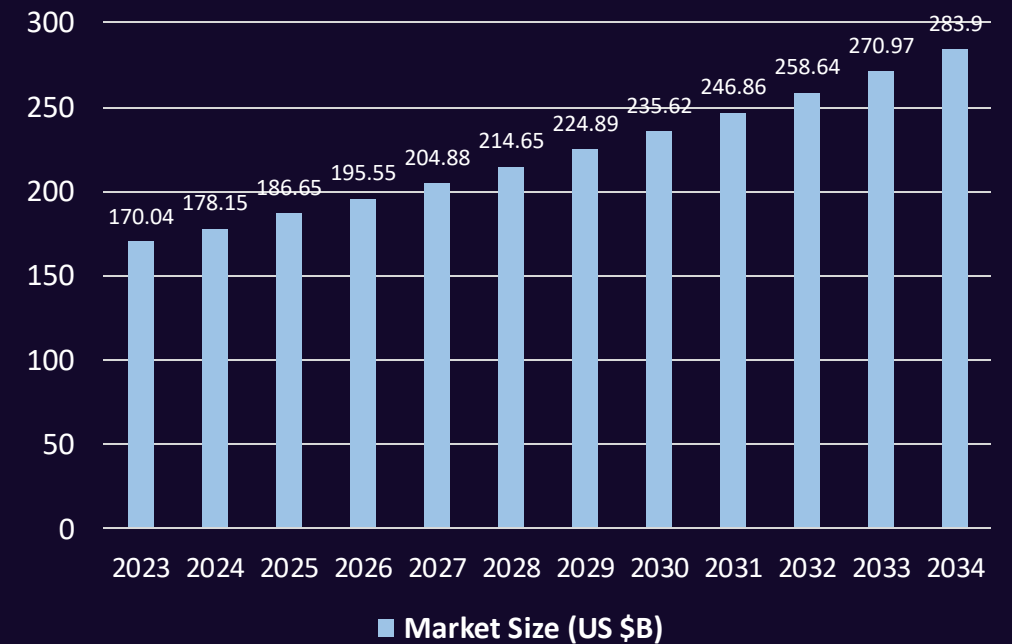
Segment-wise share (2023)



Source: MMR

■ Automotive ■ Telecom ■ Healthcare ■ Industrial ■ Consumer Electronics

Global Embedded Systems Market Size (US \$B)



■ Market Size (US \$B)

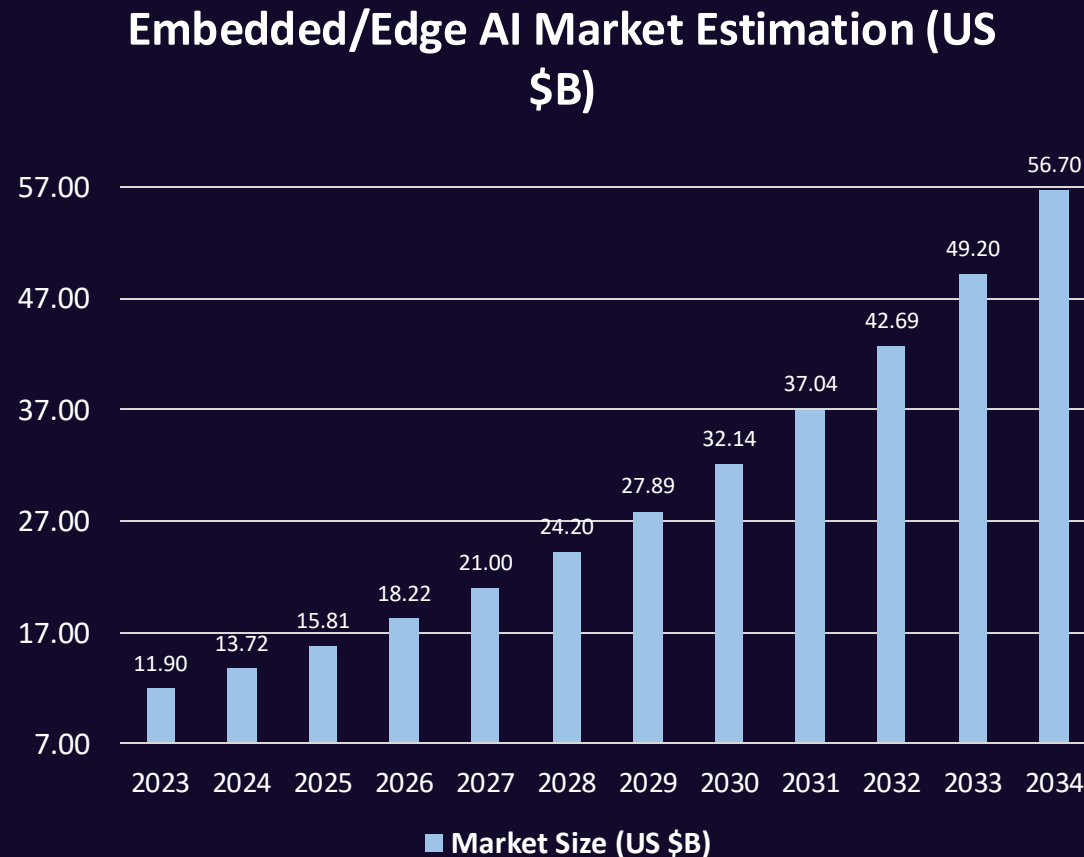
Source: Precedence Research

Automotive Embedded Market expected to grow at CAGR of 8% to about US \$60.5B in 2032 \*

\*Source: Global Market Insights

# Edge AI: Total Market Sizing

*Assuming 7% spend on Embedded AI enablement in 2023, growing at 10% CAGR*



Corresponding Global  
Edge/Embedded AI market in 2032  
expected to be around US \$12B

*Source: Global Market Insights*

# Business Model

Primarily B2B

	Pricing
Hardware	Target Selling Price: Rs. 15000 (L), Rs. 9000 (Medium), Rs. 3500 (Small)
SDK License	\$5 per month per car
Syvora Platform License	\$49 per user per month

Monthly subscription per car	\$5.0						
Hardware Cost	\$175.0						
Svora platform subscription per month per user (average)	\$49.0						
	Y1	Y2	Y3	Y4	Y5	Y6	Y7
# Cars	0	10,000	35,000	100,000	200,000	360,000	720,000
# Users on Svora Platform	0	50	200	500	1,500	5,000	15,000
Subscription Revenues		\$600,000	\$2,100,000	\$6,000,000	\$12,000,000	\$21,600,000	\$43,200,000
Hardware Revenues		\$1,750,000	\$4,375,000	\$11,375,000	\$17,500,000	\$28,000,000	\$63,000,000
Platform subscription revenues		\$29,400	\$117,600	\$294,000	\$882,000	\$2,940,000	\$8,820,000
US \$million		\$2.38	\$6.59	\$17.67	\$30.38	\$52.54	\$115.02

# GTM Strategy

Phase	Goal	Strategy	Outcome	Timelines
Beta Phase	Establish PMF for Automotive sector	Founder-led initial customer acquisition	- 2-3 POCs completed; at least 1 paying customer	12m
Scaling automotive sector	Scaled, self-sustaining growth in automotive sector	Internal sales team, and partner led growth in automotive; establish US, Europe & Korea GTM	Target 3-3-2-2-2 revenue growth pattern from automotive	12m >
Broad-basing solution for all sectors	Establish PMF and service partner led strategy for other sectors	Internal sales team and service partner led deployments		> 18m