# The Next Wave
# of AI Compute

# Problem Overview
The AI Compute Crisis

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**NVIDIA** has a monopoly on AI Compute infrastructure.

IMPLICATIONS

- ✕  Too much complexity in distributing workloads
- ✕  Difficult to scale
- ✕  Lack of choice in networking protocols

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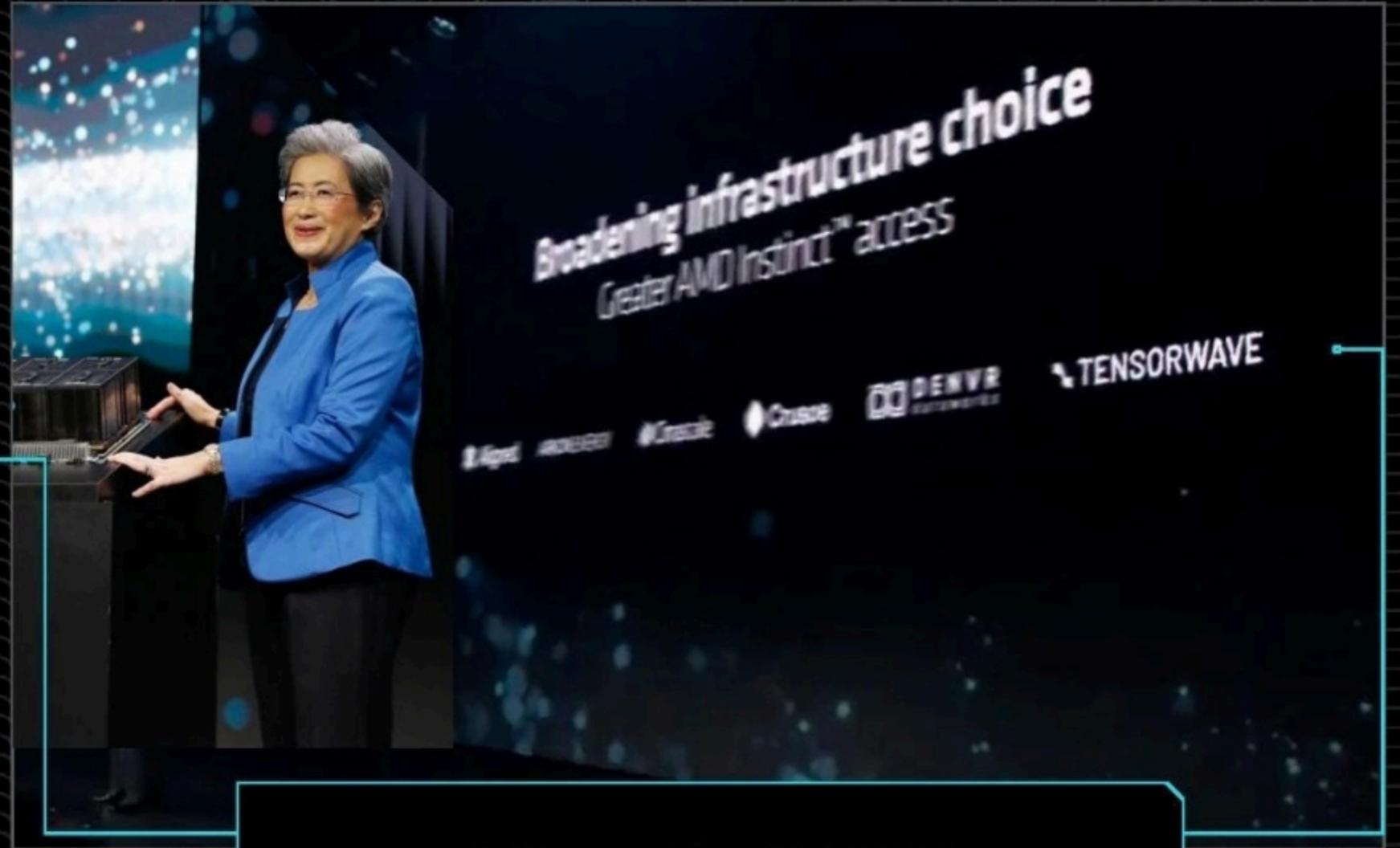**NVIDIA's** supply constraints limit AI industry growth

IMPLICATIONS

- ✕  Massive unmet demand for AI compute
- ✕  Cloud providers booking for 2025
- ✕  Long lead times

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**AMD**

DEC 06, 2023

" What's important about this is it will actually make it easier for developers and AI startups to get access to **MI300X GPUs** as soon as possible with a proven set of providers.

DR. LISA SU
CHAIR AND CEO, AMD

OFFICIAL MI300X LAUNCH PARTNER

# TensorWave at a Glance
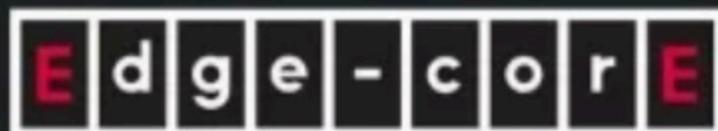## The Next Wave of AI Compute

### ABOUT TENSORWAVE

- Building the **disruptive AMD GPU Cloud**
- **AMD MI300X** Launch Partner fully supported by AMD
- Inference Superiority & First RoCE v2 Clusters
  - **Dominant Inference Performance** with **exclusive** Inference Engine
  - Building **Reference Architectures** for RoCE v2 Clusters alongside **AMD** and **Edgecore**

### THE MARKET IS HERE AND NEEDS A UNIQUE SOLUTION

- GPU Accelerator shortage has starved hyperscalers and enterprises of GPU Compute Capacity
- Shortage Expected to Continue (Power & Chip Availability)
- Buyers desperately need an alternative for AI compute infrastructure

### STRATEGIC PARTNER

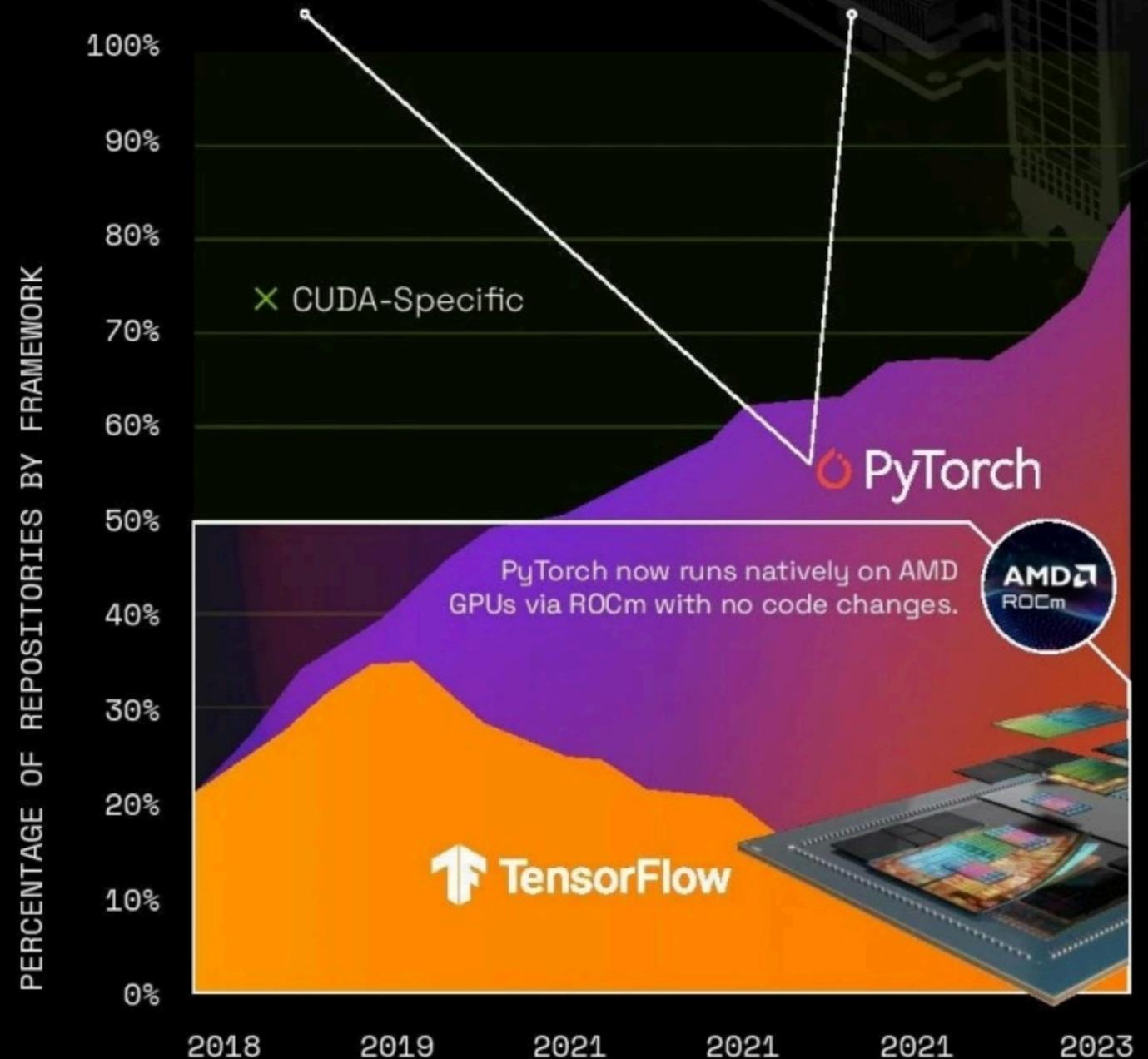Edge-corE

# The Rise of Open Source AI
## Breaking CUDA's Grip

- The default software stack for machine learning models is now solidly PyTorch or others. SOURCE↗

- No code changes required to run on AMD backed cloud.

- "You can now switch back and forth between AMD and NVIDIA backed infrastructure within a single training run!" SOURCE↗

**92%** 🤗 SOURCE↗
+ OF MODELS AVAILABLE ON HUGGING FACE ARE PYTORCH EXCLUSIVE

**74%** SOURCE↗
+ PYTORCH/TENSORFLOW MACHINE LEARNING PAPERS IN 2023



PERCENTAGE OF REPOSITORIES BY FRAMEWORK

× CUDA-Specific

PyTorch

PyTorch now runs natively on AMD GPUs via ROCm with no code changes.

AMD ROCm

TensorFlow

2018  2019  2021  2021  2021  2023

# Superior LLM Performance

Powered by AMD Instinct MI300X GPUs

- ● NVIDIA HGX
- ● AMD INSTINCT PLATFORM

- ○ AMD's MI300X is the "highest performing accelerator in the world." SOURCE ↗

- ○ 1.4x times (vs H100) better performance with Meta's Llama 2, a 70 billion parameter LLM.

SOURCE ↗



| NVIDIA H100 SXM | Chip Specs | AMD MI300X |
|---|---|---|
| 67 TFLOPS | FP32 PERFORMANCE | ▲ 120 TFLOPS |
| 80 GB | GPU MEMORY | ▲ 192 GB HBM3 |
| 3.35 TB/s | MEMORY BANDWIDTH | ▲ 5.2 TB/s |
| NVLINK/NVSWITCH | INTERCONNECT | INFINITY FABRIC |

# A Proven and Successful Team

We Build Successful Teams and Companies

## Built the Largest Tech Startup in Nevada By Valuation

- Six (6) companies founded across team
- $65M+ raised across **previous** ventures
- Decades of experience delivering Cloud, AI/ML, B2B SaaS, FinTech Solutions to Fortune 500 customers

### Darrick Horton
CO-FOUNDER, CEO

INFRASTRUCTURE &
CLOUD EXECUTIVE

LOCKHEED MARTIN
SKUNKWORKS ENGINEER

### Piotr Tomasik
CO-FOUNDER, COO

MULTIPLE-TIME
TECHNICAL CO-FOUNDER

3X EXITS; INFLUENTIAL,
LETSROLO, ACTIVESIDE

### Jeff Tatarchuk
CO-FOUNDER, CGO

SERIAL ENTREPRENEUR, SALES
& MARKETING EXPERT

MULTIPLE COMPANIES
SOLD/ACQUIRED

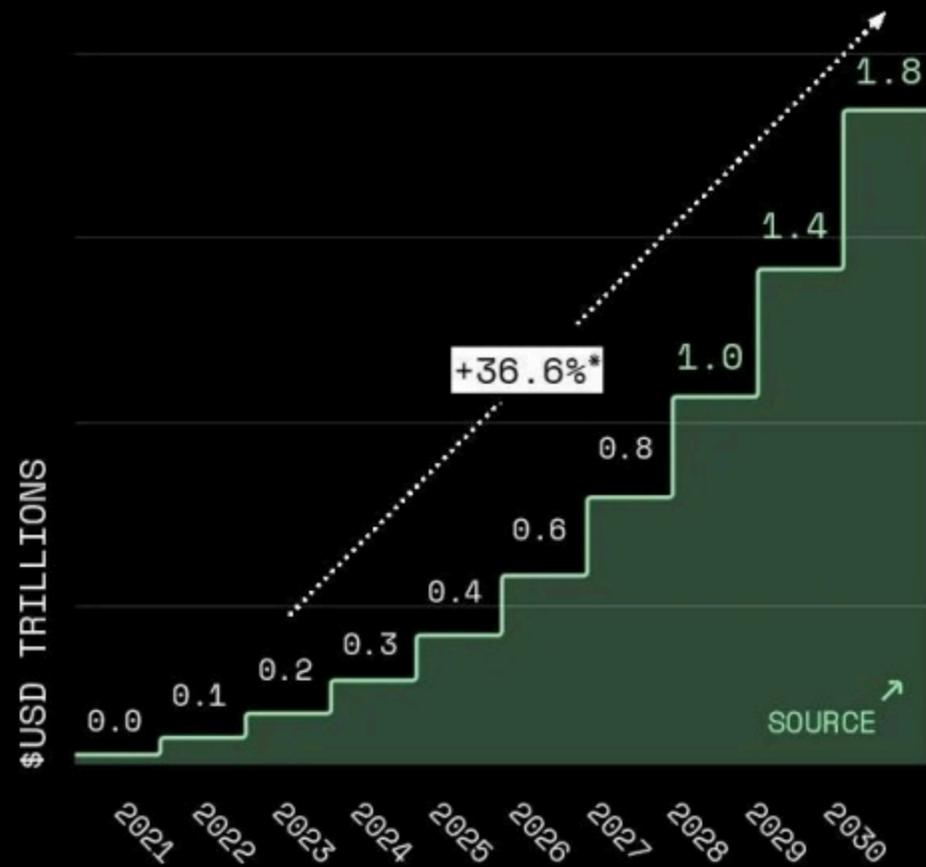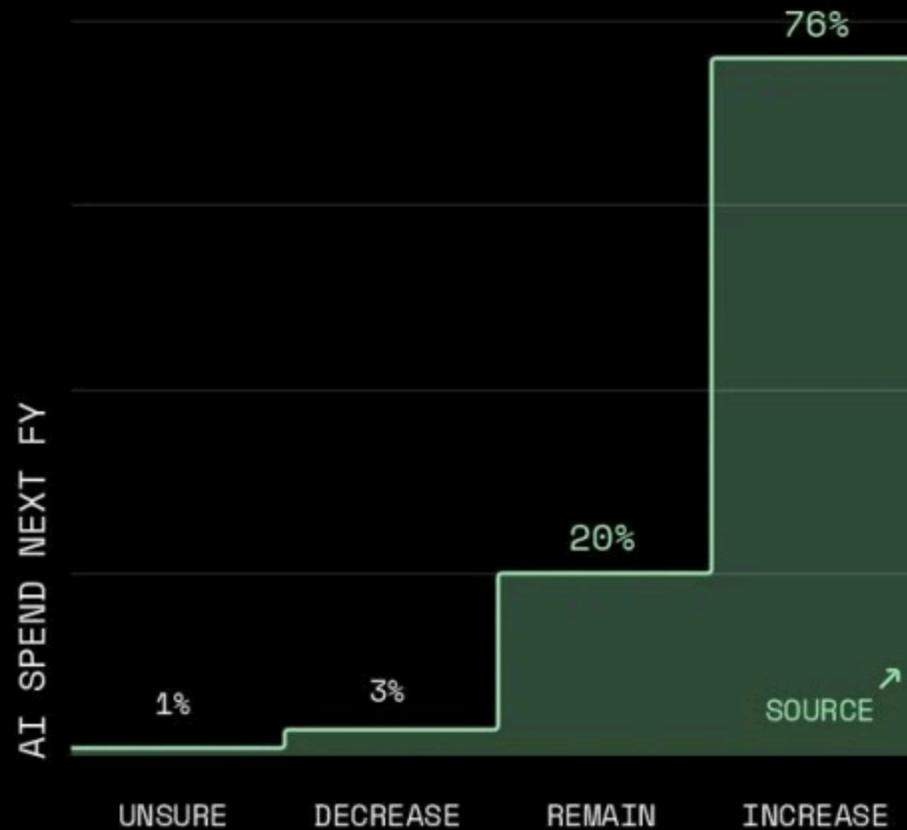∞ Meta          P PayPal          venmo          IBM          LOCKHEED MARTIN ✦
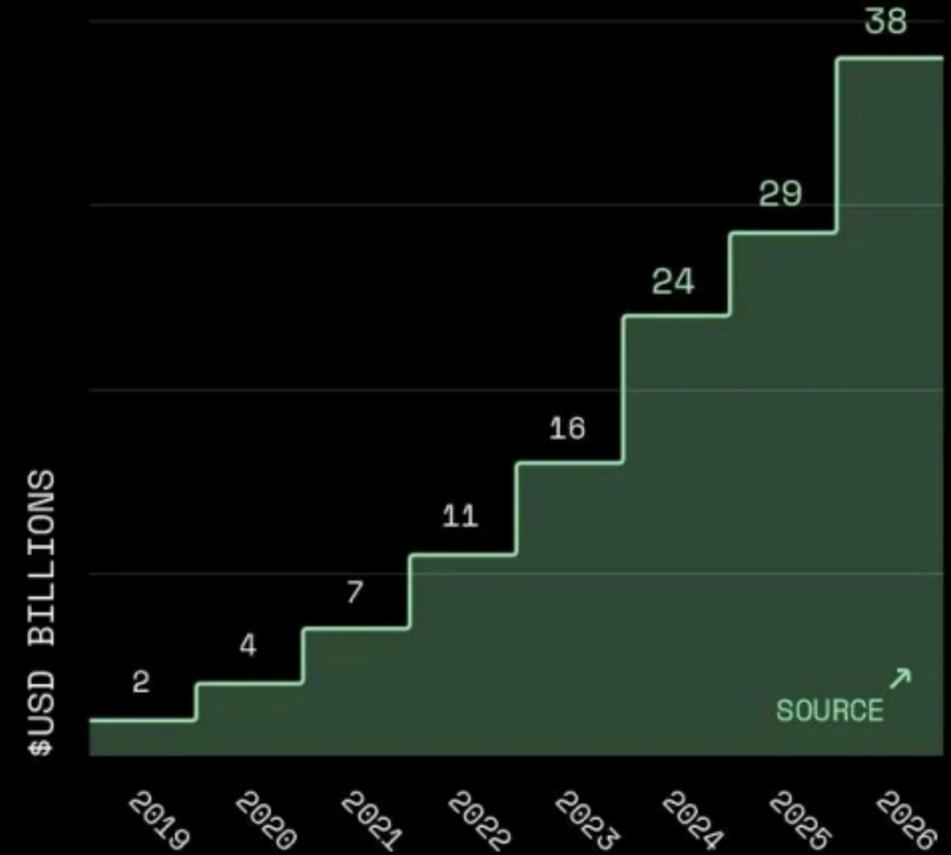
# Market Size

→ Global AI market to cross 1 Trillion by 2028

→ Expect More Increases in AI Investments in US and Worldwide

→ Market Revenue for AI Processors and Data Centers is Soaring



Chart 1 ($USD TRILLIONS vs years 2021–2030):
- 2021: 0.0
- 2022: 0.1
- 2023: 0.2
- 2024: 0.3
- 2025: 0.4
- 2026: 0.6
- 2027: 0.8
- 2028: 1.0
- 2029: 1.4
- 2030: 1.8

+36.6%*

SOURCE

*CAGR = COMPOUND ANNUAL GROWTH RATE / AVERAGE GROWTH RATE PER YEAR



Chart 2 (AI SPEND NEXT FY):
- UNSURE: 1%
- DECREASE: 3%
- REMAIN: 20%
- INCREASE: 76%

SOURCE



Chart 3 ($USD BILLIONS vs years 2019–2026):
- 2019: 2
- 2020: 4
- 2021: 7
- 2022: 11
- 2023: 16
- 2024: 24
- 2025: 29
- 2026: 38

SOURCE

# Learn More

## The **Next Wave** of AI Compute

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