



Consuming AI

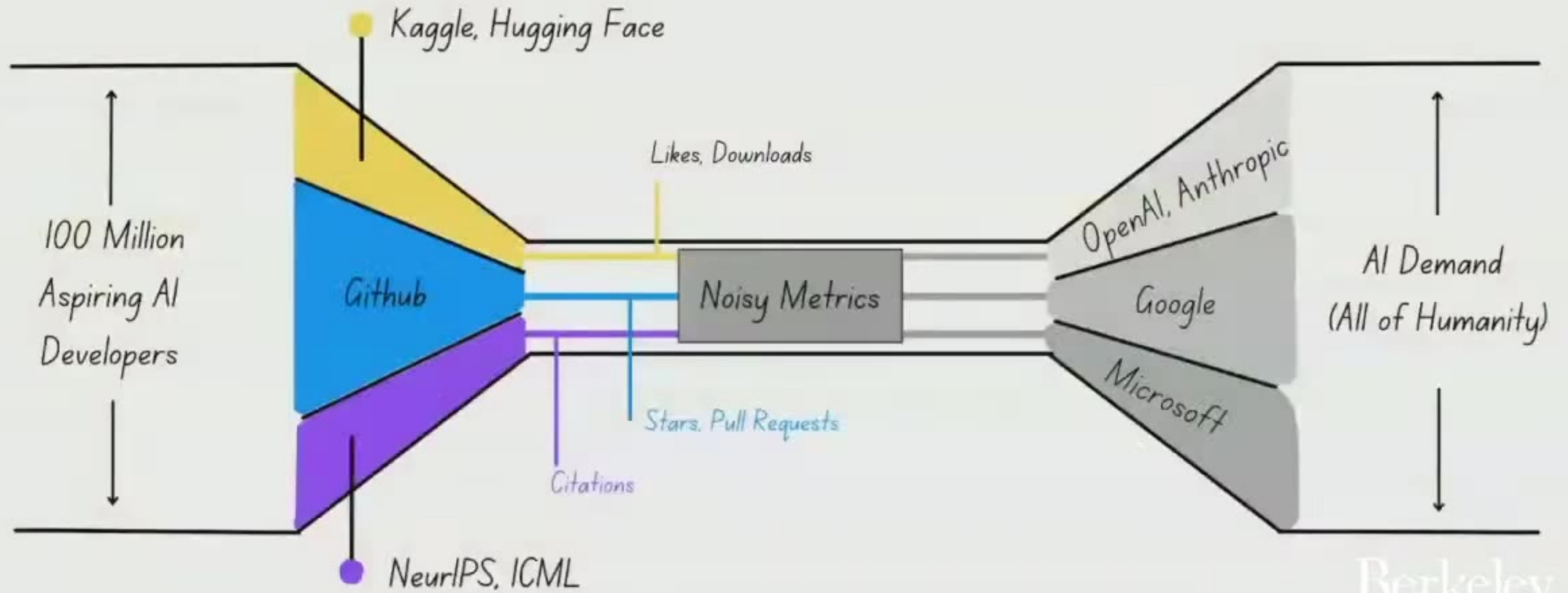
- Consumers (everyone)
- Business (all of them)
- Huge impact
- All aspects of human society

Building AI

- Very accessible
 - “shake and bake” tech
 - Large developer base
 - Large number of applications
- (**not** “winner take all”)

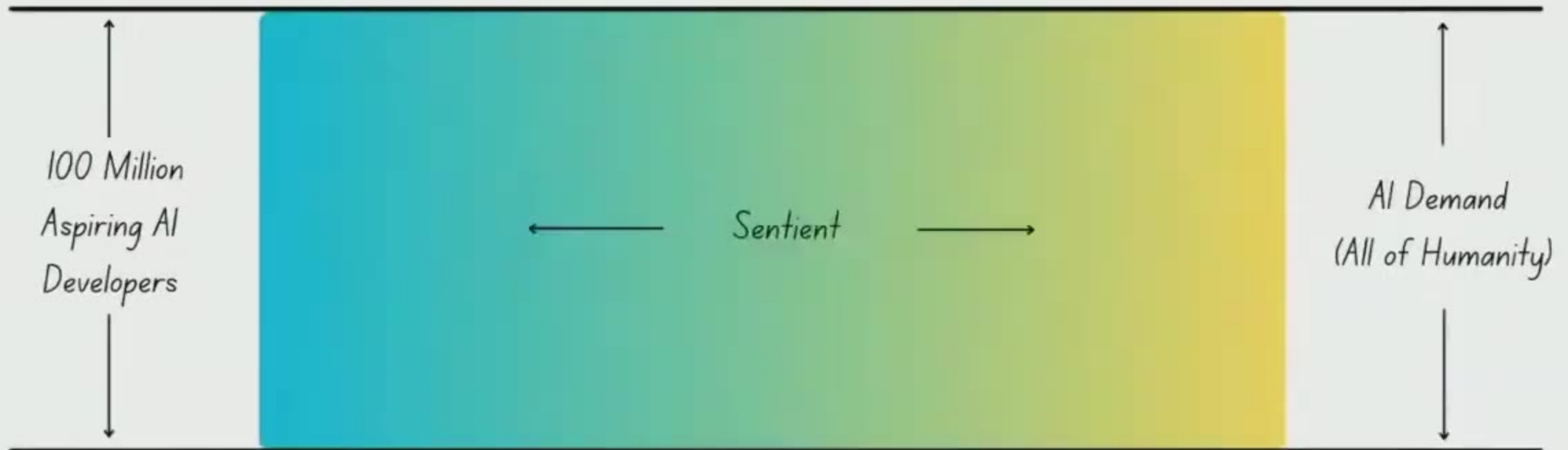
Motivation

Verizon Event ...



Endgame

Verizon Event ...



Option A - Closed World

- Open AI
- Gemini
- Anthropic
- API access
- Paid portal
- No composability

Option B - Open World

- Llama
- Stable diffusion
- Mistral
- freely given away
- no monetization
- flexibility for downstream use

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(Actually) Open AI Flow

Verizon Event ...

AI Flow

Open?

AI-native proofs

Data collection

Yes

Proof of contribution (e.g. HFRL)

Model training

No

Proof of training

Model hosting

No

Proof of fidelity

Model inference

No

Proof of inference

Model alignment

Yes

Loyalty

Model economics

Yes

Monetization



Monetization

share the model openly, but **owner can track usage and economic value**

Digital rights management for AI

Analogous to licensing software

But for “open” software (no obfuscation)



Loyalty

share the model widely, but not “useful” without a signed input

Decoupling AI development from Alignment

respect owner’s ethical, communal, safety values

allow each owner to set and enforce their own “constitution”



Open, Monetizable, Loyal

Open: allows builders to improve from one another's innovation

Monetizable: incentive compatibility, AI entrepreneurship

Loyalty: safe, aligned, ethical usage

OML: new cryptographic primitive



Indistinguishability obfuscation

classical goal; long standing, “crypto-complete” challenge

would resolve OML

incomplete theoretical understanding; far from practical



Cryptography

discrete (digital) data, every bit critical (hiding/verification/recovery)

AI data

continuous (e.g., embeddings)

differential geometry (e.g., low dimensional manifolds)

approximate behavior (e.g., average performance metrics, close by output)



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Using AI itself to build OML

Precedent: AI methods to invent new codes (e.g., KO codes)

Thursday 4-7pm, Open AGI Symposium, Columbia University

openagi.xyz/symposium



sentient

Community built AI



Berkeley
UNIVERSITY OF CALIFORNIA
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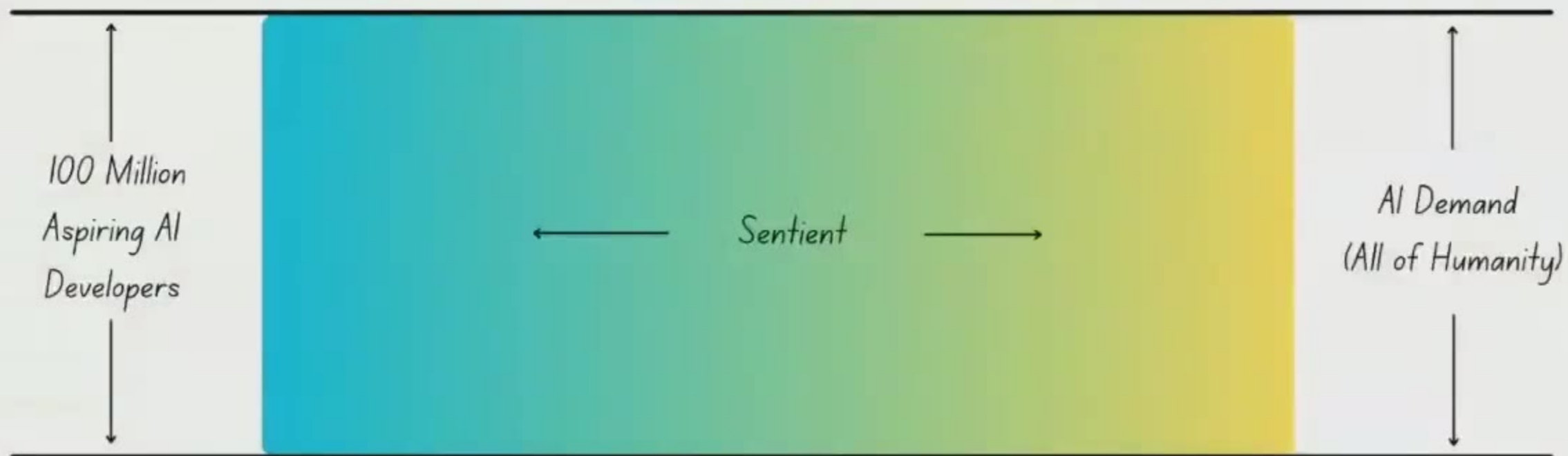
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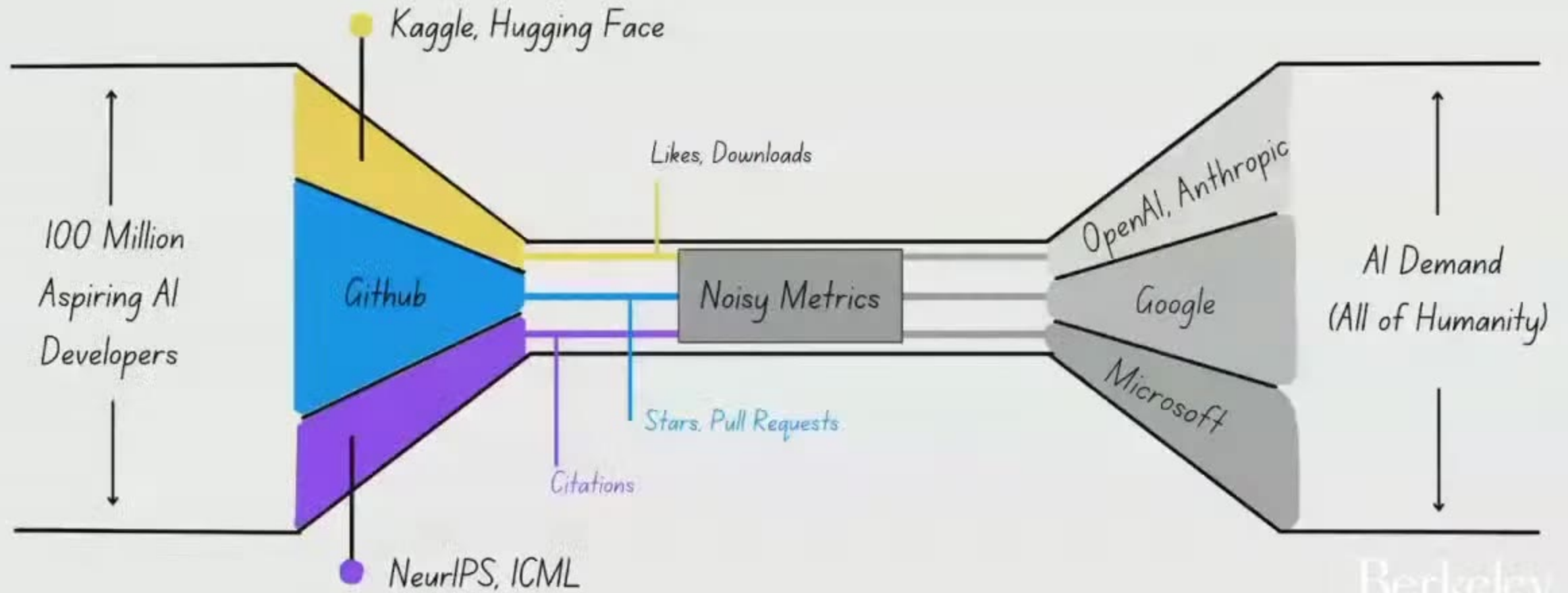
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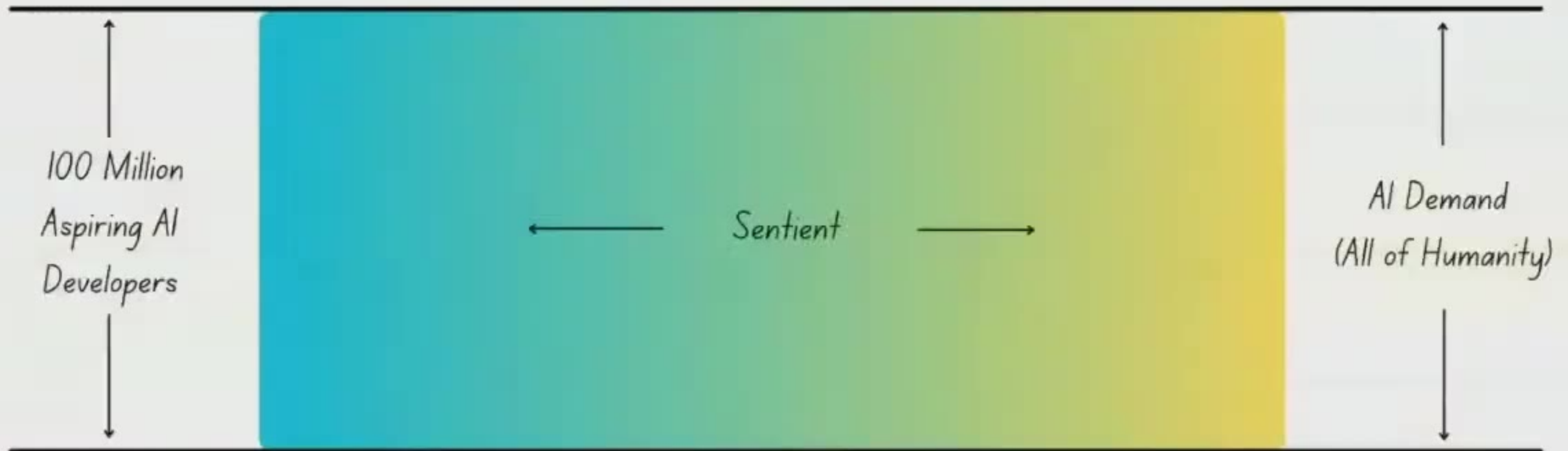
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Session III: Foundations of Decentralized AI (II)

Decentralized AI Ecosystem

DC Builder

Research Engineer
Worldcoin Foundation



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