

# P2P DECENTRALIZED AI USING BLOCKCHAIN.

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# AI

- A technology that enables machines get smarter at performing human-like tasks.
- Top-down centralized system
- Enhances other technologies

# BLOCKCHAIN

- A digital ledger distributed across a network of computers.
- Fundamentally disruptive technology
- Changes how data and transactions are managed
- Decentralization

# RISE OF AI

- Early AI: focused on optimizing large-scale tasks (like computer vision)
- Large Language Models (LLMs) have transformed AI capabilities.
- Now: Not only optimizes workload at scale but surpasses human performance in specific tasks.

# COMPONENTS OF AI

- Compute
- Data
- Algorithms/Framework

# IMAGINE...

## Your own AI model

- Learns your preferences,
- Knows you well over time,
- Follows you through your life,
- Helps you make decisions.

## BUT...?

- You don't want this AI system to be controlled by these big tech giants, as it gives a company a great deal of control
- Questions about privacy, sovereignty
- What if these companies change the rules, change the pricing/business model, or just goes away or compromised.
- We want these models to run for a long time. But how to make it truly yours?

## Plus: ADVENT OF GENERATIVE AI

These transformer-based architectures like LLMs or diffusion models are capable generating content indistinguishable to humans.

With this Infinite abundance of generating art, creative texts/media.

How to distinguish humans or AI?



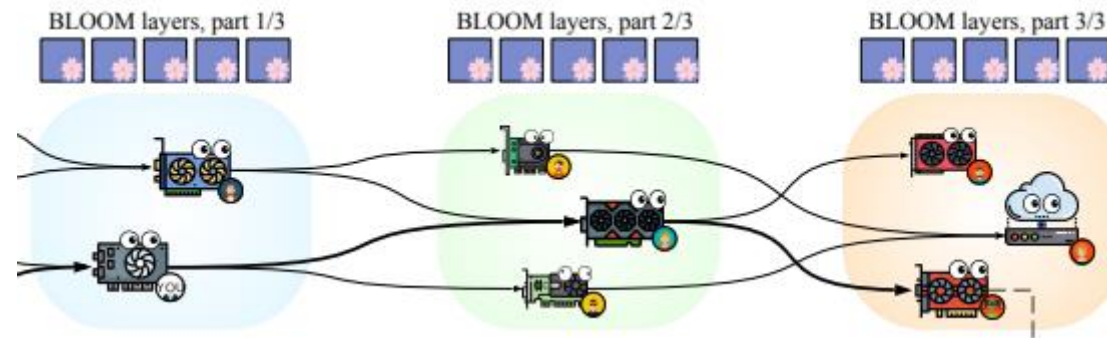


# BLOCKCHAIN

- Distributed Compute:
- ZKP for Data
- ZKML to inference with AI models

# DISTRIBUTED COMPUTE

Outsource Training & Inference process to a large community instead of relying on Massive Datacenters of Google/Microsoft/AWS/Meta/OpenAI



## BUT WHERE PRIVACY?

How will peers train models on my data?

### **BLOCKCHAIN**

Fully homomorphic compute and ZKML are ways to perform computations on the data that is encrypted, to get encrypted results.



# NEW ERA OF AGI NEEDS TO BE DECENTRALIZED

Decentralized AI using blockchain.





# THANK YOU

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