# devfest2021



(in

def plo true plt.o plt.o plt.o

plt.

The Convergence of Artificial Intelligence & Blockchain.

Samuel Akinosho CEO, Spydar Africa









Vice versa, can enhance blockchain's underlying architecture and boost AI's

potential"

"The integration of AI and Blockchain and

today's date topology through individual ownership and control of data"
- Paul Lee (CEO, Mind AI)

"Blockchain has the potential to break down



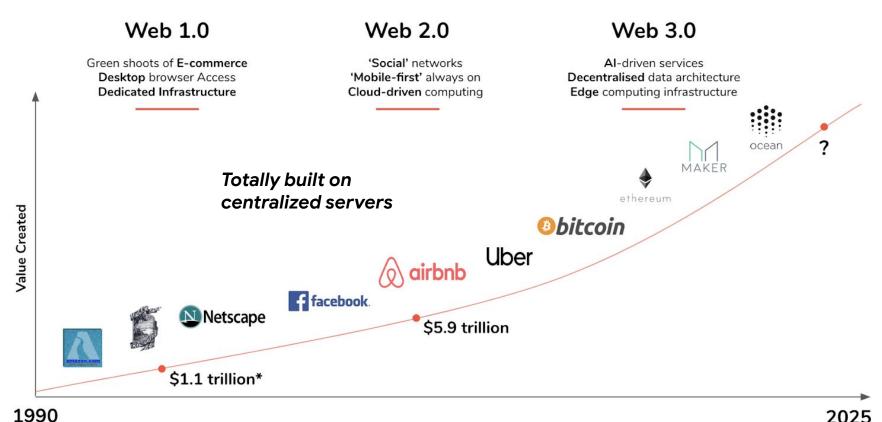


Let's talk about the Web



#### Web 3.0

### Shrinking Economy | Data Ownership | Accountability | Towards General Intelligence



\* Internet companies market cap as of 2000

What Value Do You Give To The World If You Have No Data?

plt.grid plt.xtic plt.ytic

ptt.imsn

color else: color



```
class Node:
    def init (self,initdata):
        self.data = initdata
        self.next = None
    def getData(self):
                              LinkedList
        return self.data
                                 word
    def getNext(self):
        return self.next
    def setData(self,newdata):
        self.data = newdata
    def setNext(self,newnext):
        self.next = newnext
```

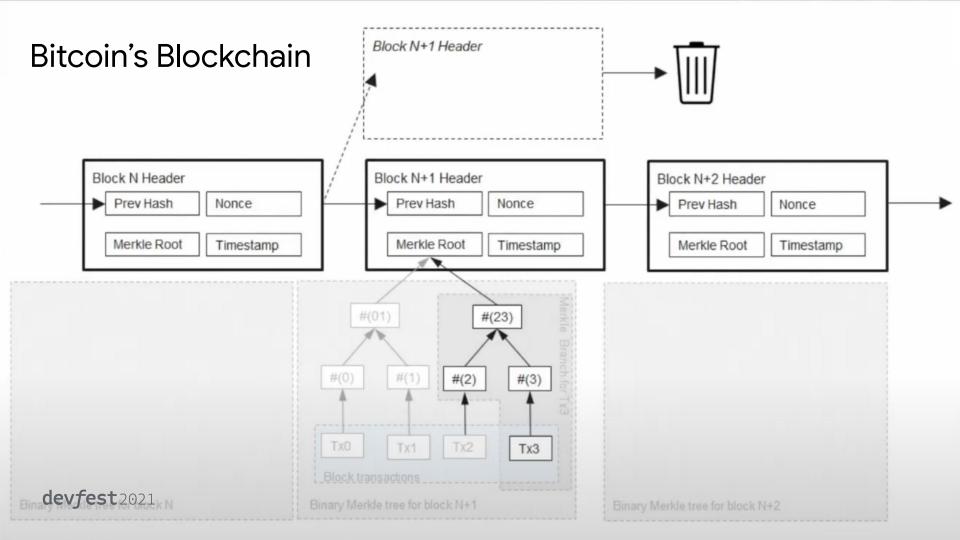
#### The Linked List

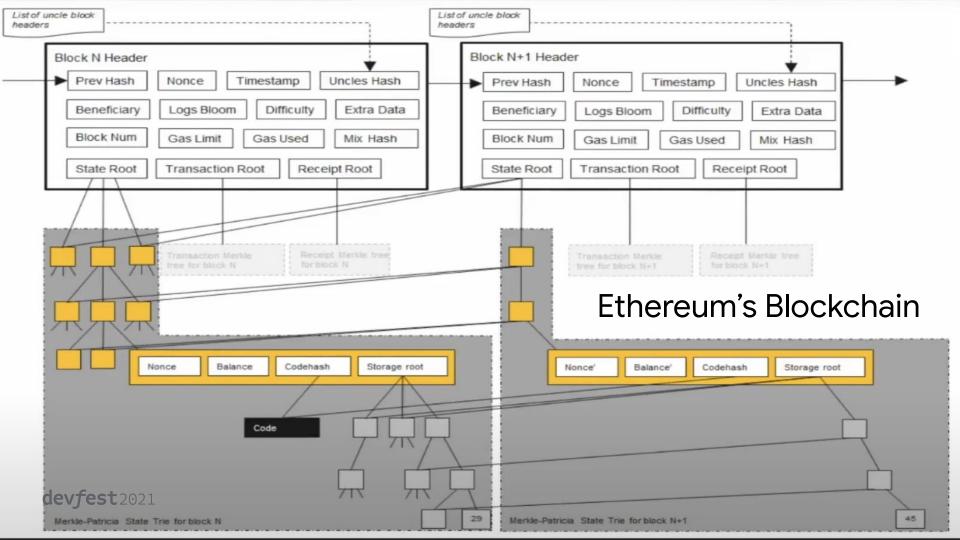
```
LinkedList LinkedList LinkedList word word word "Stack" "Overflow"
```



Blockchain







```
pragma solidity ^0.4.0;
contract Coin {
    // The keyword "public" makes those variables
    // readable from outside.
    address public minter:
    mapping (address => uint) public balances;
    // Events allow light clients to react on
    // changes efficiently.
    event Sent(address from, address to, uint amount);
    // This is the constructor whose code is
    // run only when the contract is created.
    function Coin() public {
        minter = msg.sender;
    function mint(address receiver, uint amount) public {
        if (msg.sender != minter) return:
        balances[receiver] += amount;
    function send(address receiver, uint amount) public {
        if (balances[msg.sender] < amount) return;</pre>
        balances[msg.sender] -= amount;
        balances[receiver] += amount;
        Sent(msg.sender, receiver, amount);
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```

Smart Contract



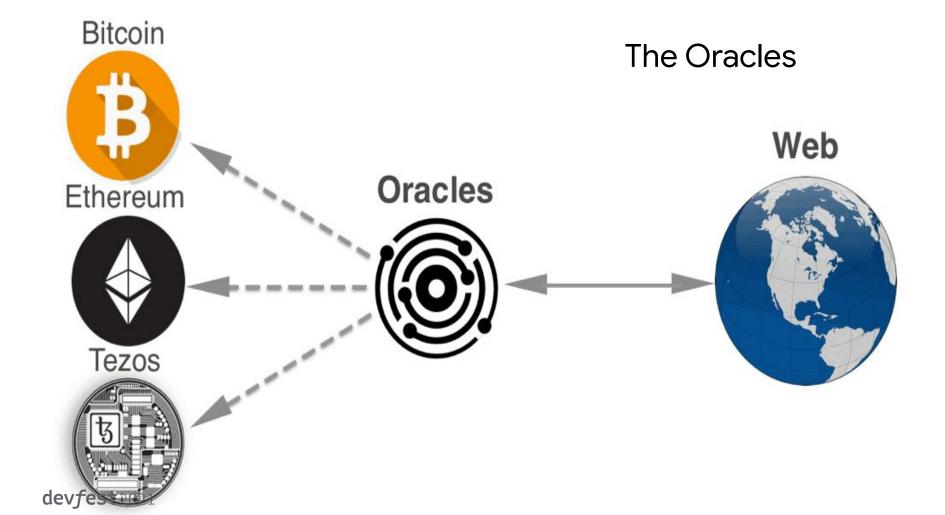
**>>** 

def plot\_image(i, predictions\_a
 true\_label, img = true\_label[
 plt.grid(False)
 plt.xticks([])
 plt.yticks([])

predicted\_label = np.argmax(p
if predicted\_label == true\_la
color = 'blue'

color = 'blue' else: The Problem



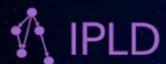




applications

Using the Data

**IPNS** 



naming

merkledag

Defining the Data

libp2p

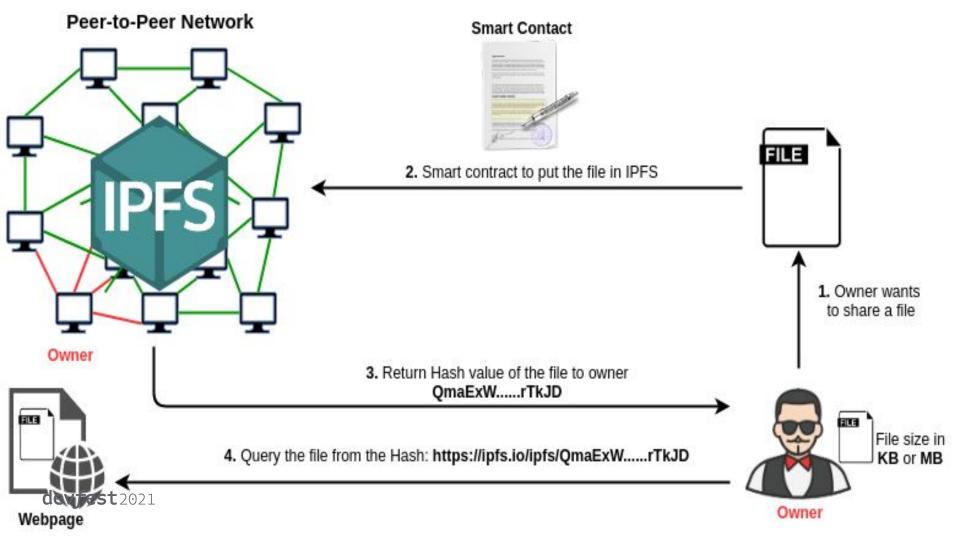
exchange

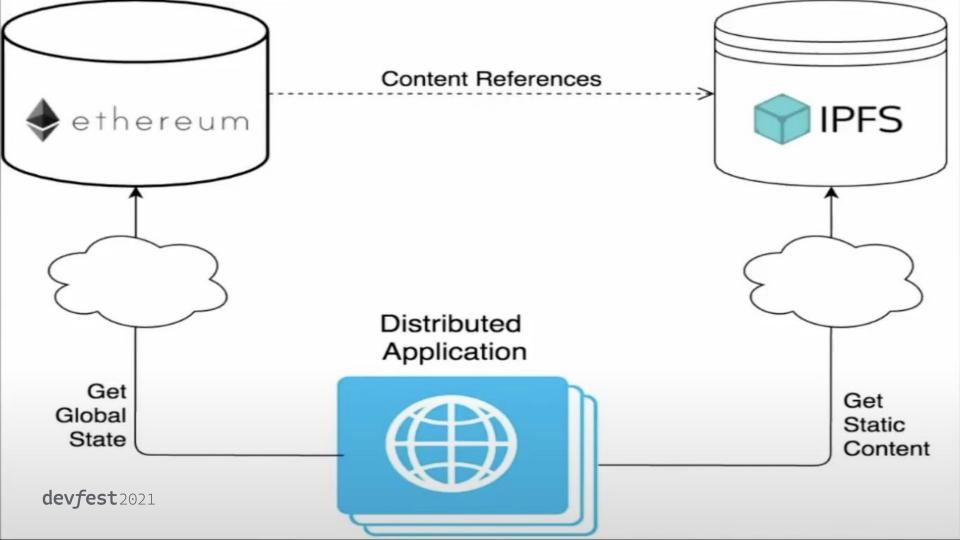
routing

network

Moving the Data

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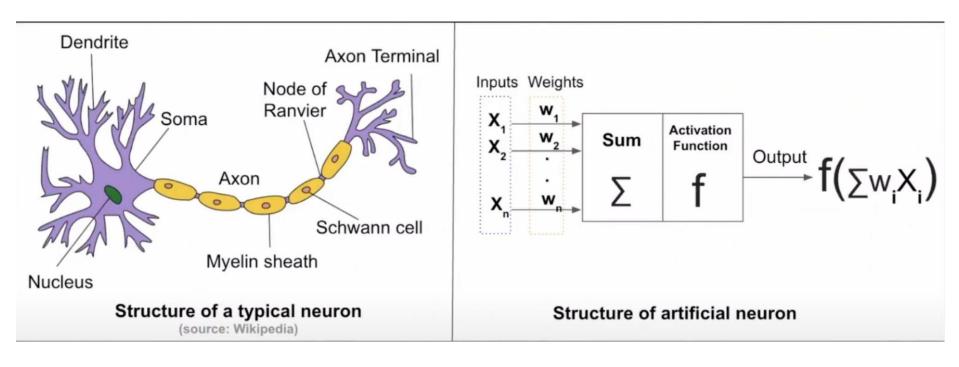




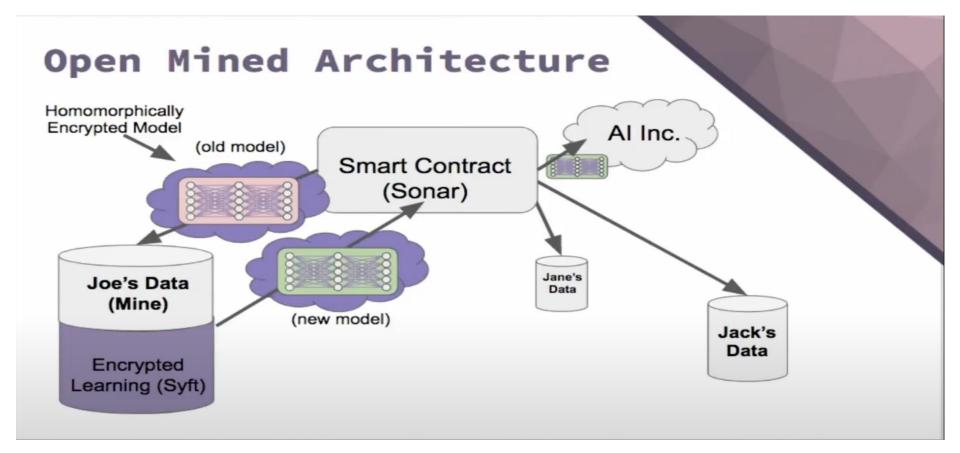
# Deep Learning



### Deep Learning



### IPFS + Ethereum + Deep Learning





Use Cases



### ALGORITHMIA

#### Buyer creates a new contract.

**Buyer** 

#### Here's an example:

Criteria: Classify fraudulent orders w/ > 90% accuracy Data: Sample of 20k orders Reward: \$200 in ETH

### **Ethereum Blockchain**

Contract is published to the Ethereum Blockchain. **ML Engineer** Downloads Data and Trains an AI/ML model.

criteria of the contract the model is sent to the buyer, and payment sent to the ML engineer.

> The model is submitted and run on the Ethereum Blockchain using the data set from the contract.

If the model fulfills the

#### **Machine Learning Engineer**

The proposed ecosystem will consist of:

#### A UNIQUE IDENTIFIER (UID):

A Unique Identifier which marks a particular patient record as unique from every other record. It allows the record to be referenced in the Summon Index without confusion or unintentional overwriting from other records.



## **M** medica



#### MEDICA SUITE:

Open source tools and applications, which will boost the traction of the protocol and create the first generation of services.

#### A PROTOCOL:

A Personal Health Record (PHR), which relies on distributed ledger technologies that can be used and owned by the patient.

#### A DIGITAL UTILITY TOKEN:

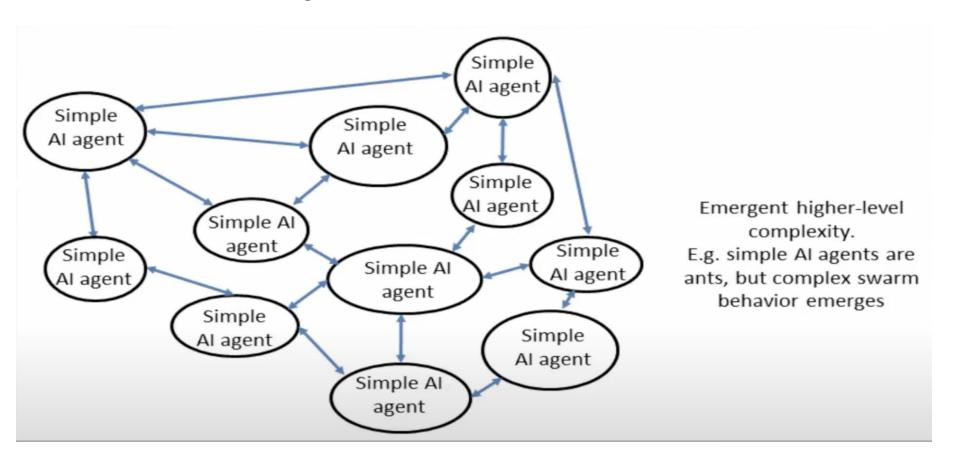
The (Medica), which will empower the ecosystem..





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### The Future? - Emergent Al



I look to the future because that's where I'm going to spend the rest of my life.

@SamuelOX

