

`/* we need these tools during workshops */`

`/*`

Ethererum

truffle

solidity

Remix

Vcode ( you can use other IDE)

Test ether Faucet

Geth

Web3.js

Ipfs

Whisper

Metamask

Myetherwallet

`*/`

Blockchain the future of ai \_part 1 :

( 02:00h )

Session1: 2h

Section 1 ☺ 01:30h

## Introduction of the school of ai

1 Future of AI.pptx

## 2. Intro to Blockchain

### 3. Intro to Deep Learning

Section: 2 😊 00:30h

## Deep Learning

## 4. Deep Learning Chains

Section: 3 ☺ 00:30h

## Blockchain

## 5. Blockchain Payment Channels: intro

## 6. Blockchain Payment Channels: economic impact

## 7. Blockchain Uses

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## Blockchain the future of ai \_part 2:

getting deep into the blockchain technology

(03:30 h)

session 1 : (03 :30 h)

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😊 (01 :15)

1. Blockchain's Big Innovation is Trust, Not Money

2. Blockchain overview ( 1h)

.How does a blockchain application work

.How do accounts work

.What is Gas

.What is Ether

.What is Proof of Work & proof of stack

.How Transactions work

.cryptography

.....

😊 (01 :20)

3. Bitcoin

4.bitcoin vs blockchain

➔ Activity : private blockchain (30min)

4. ICO

➔ CREATE YOUR OWN ICO! Initial Coin Offering using ERC20 Token (30min)

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😊 (00 :55)

5. Token Economics

6.Dapp (Smart contract)

7. DAO

8.web3.js

8.IPFS

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Blockchain the future of ai \_part 3:

Code and deploy our first Daap using  
the Ethereum blockchain

(06:30h)

SESSION 1: 03:30h

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Section 1 (🕒) Ethereum Blockchain

(01 :30)

1. What is Ethereum? ( overview through the architecture behind it)
  2. The Ethereum Ecosystem - What Are Blocks?
  3. Ethereum Wallet
  4. Metamask And What Is GAS?
- .....

Section 2 (🕒) Introduction To Solidity

(00:40)

6. Contracts, Constructors & Functions
7. REMIX PRACTICE
  - ➔ Creating First Smart Contract With Solidity And Remix (20min)
8. Variables In Solidity
9. REMIX PRACTICE: Variables
10. Getters & Setters
11. Arrays
12. Memory vs Storage

### 13. Mappings In Solidity

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## Section 3 🧐 Advanced Solidity

(00 :40)

### 14. What Are Structs?

### 15. Error Handling & Restrictions

### 16. Modifiers

### 17. Libraries

### 18. Global Variables In Solidity

### 19. Abstract Contracts, Inheritance and Interfaces

### 20. Events

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## Section 4 🧐 Truffle Framework & Ganache

(00 :40 )

### 21. Environment Setup - Truffle, Ganache & VSCode

### 22. VSCode Settings & Extensions

### 23. Truffle Project Creation, Ganache & Contract Deployment

### 24. Truffle Compile, Migrate & Create Commands

### 25. More Truffle Commands

SESSION 2: 03:00h

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🧐 🧐 DAPP CREATION: Pet Shop or voting dapp ( 3h) 🧐 🧐

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# blockchain core developer VS blockchain core developer

### 26. Installing Skeleton & Contract Creation \_ 20min ( I 'll push the code in github )

### 27. Migration File Creation & Deployment \_20min

### 28. Unit Testing Our Smart Contract( understanding the utility and mecanisme) \_30min

### 29. WEB3JS(create simple User Interface) \_40min

### 30. Metamask Setup & DApp Testing\_20min

### 31. Deploy our Dapp using IPFS \_20min

## 32.overview of existing Decentralized applications (30min)

Invite them to join our course on [#school of AI](#) platform

⇒ Move to the AI PATH( @khalil @amine you are going guys to create an AI learning path or you can use the suggested path by the community )