

I have totally not recycled this template from ingenium 2021,  
trust me.

# AI/ML and Web3.0

Big Data, Machine Learning, Blockchain,  
Artificial Intelligence, Digital  
Manufacturing, Big Data Analytics,  
Quantum Communication, Internet of  
Things.





01

# ABOUT ME

Talking: Kaushal Patil

- SDE2 at Pedals Up
- CTO and Cofounder at [gettriff.xyz](https://gettriff.xyz)
- Builder 🚀

Please go buy my cryptocurrency \$SCAM.  
Lol not really.

Github/Linkedin: kaushal1011, Instagram/Youtube: kau5hal10

A high-angle photograph of a Formula 1 race track. Two cars, a red Ferrari and a red and yellow Red Bull, are racing on the asphalt track. The track is bordered by a red and white striped curb. A large crowd of spectators is seated in the stands on the left side of the track. In the background, there is a grassy embankment and a yellow Pirelli banner. The text "Honestly," is overlaid in large white letters at the top left.

Honestly,

what are  
we doing?



## My Journey

2018-19

Normal Programming.  
C/C++, Python.  
Hacking

2019-22

Building projects as Full  
stack SDE and AI  
developer

2022

TA for Blockchain.  
Founder of new product.  
Sell out to VC interests

2023

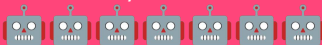
Pursuing a Masters  
in CS/AI. 🙌



## WHAT ARE WE TALKING ABOUT?

### AI/ML

Can we make an AI that will  
take over the world? We  
already have zuck



### Web3.0

Why did the chicken cross the  
road? It was told it would get 5BTC  
on the other side.  
It did not. 🐔😭

### Intersection?

Hype! Hype! Hype! Hype! Hype! Hype!

A look at what kind of projects  
you can build and where?

I am building an autonomous car that  
can water my plants at the right time  
so they grow up can talk to me?  
What 🧑?

## SOME GOOD NEWS

LEARNING ML/DL  
FROM UNIVERSITY

ONLINE COURSES

FROM YOUTUBE

FROM ARTICLES

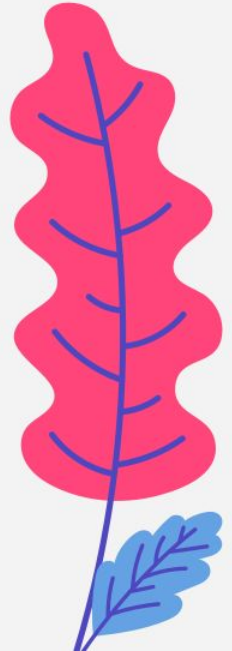
FROM MEMES



# Project Based Learning? 🤔

# Meme Based Learning

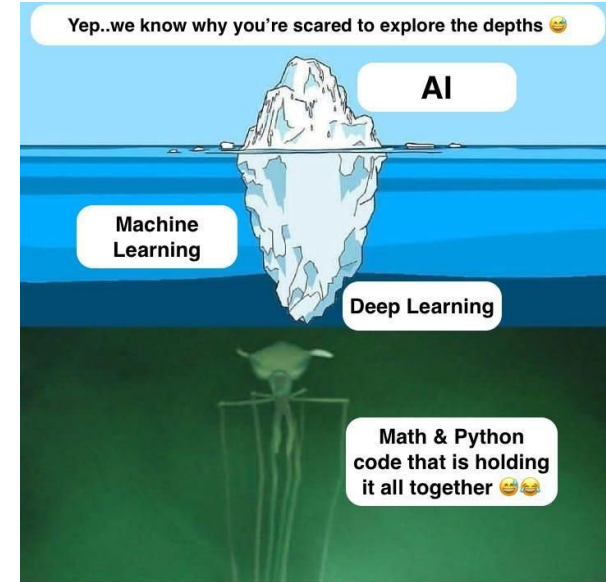
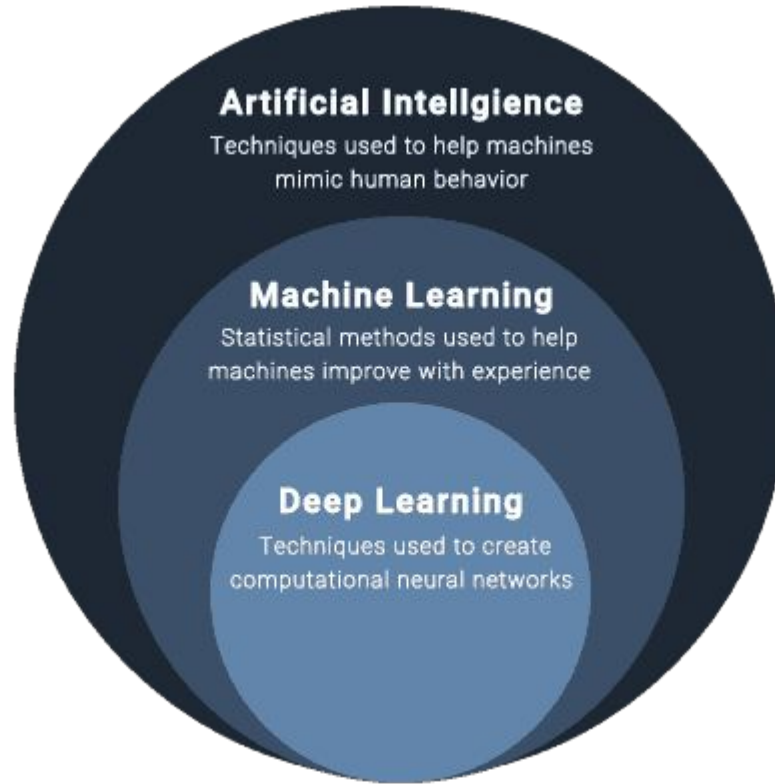
OK

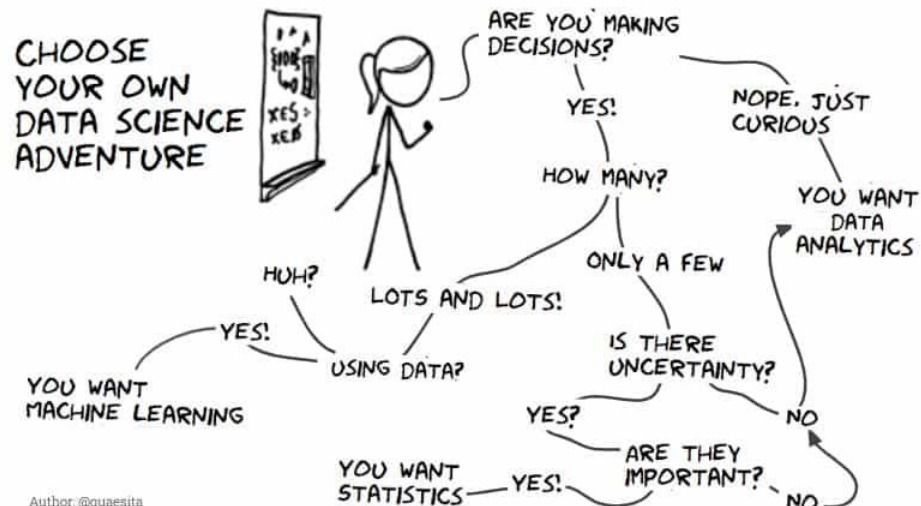
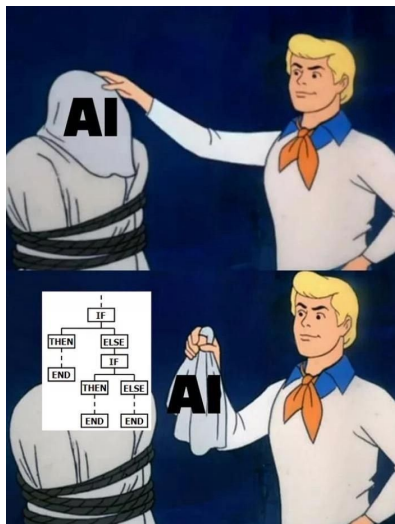




## AI/ML

Search  
Knowledge  
Uncertainty  
Optimization  
Learning  
Neural Networks  
Language

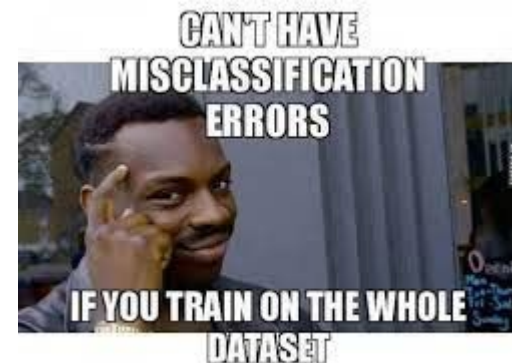
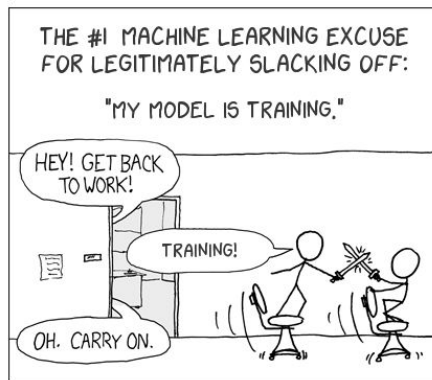




Statistics

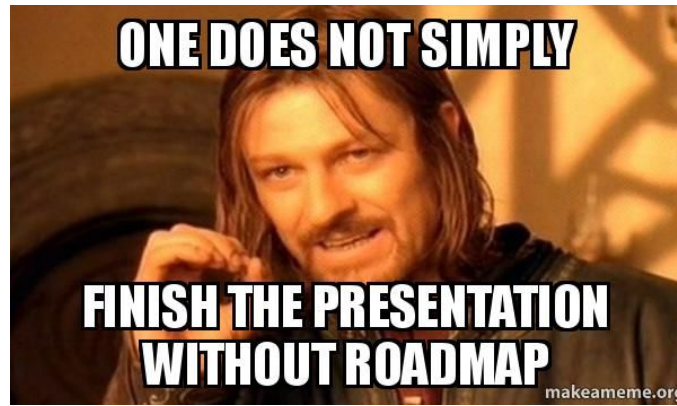
*Data Science*

I aM a dAtA sCiEnTiSt



memegenerator.org





Applications &  
Roadmap  
(Digital)

<https://i.am.ai/>

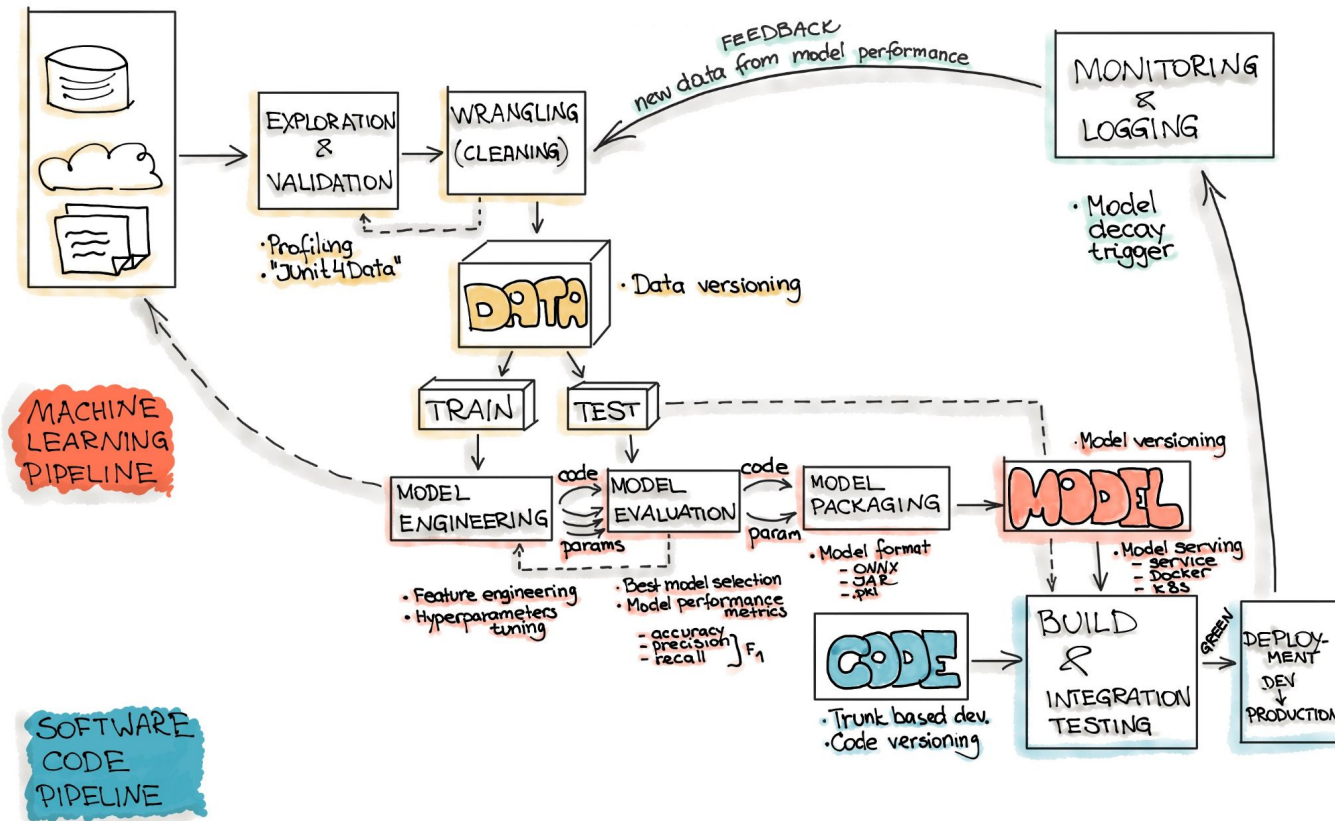
Roadmap Pro Max

<https://kaushal1011.github.io/machine-learning/>

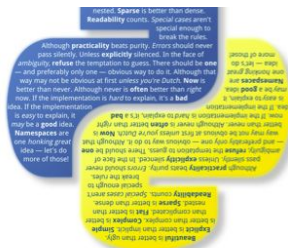
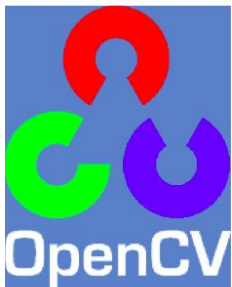
Roadmap Lite

## DATA PIPELINE

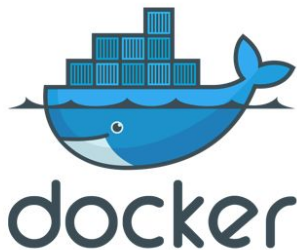
# MACHINE LEARNING ENGINEERING



Totally not stolen from previous talks.



kubernetes



Self-driving cars are the future

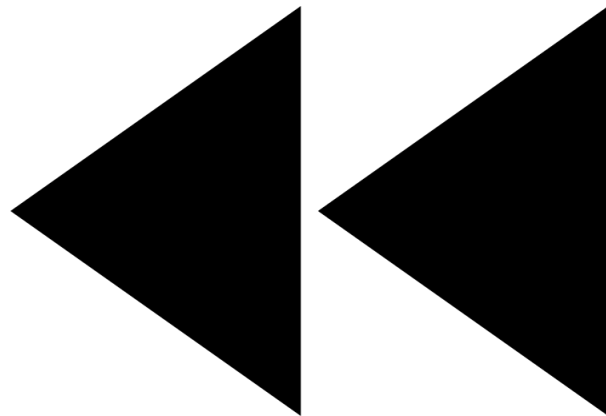
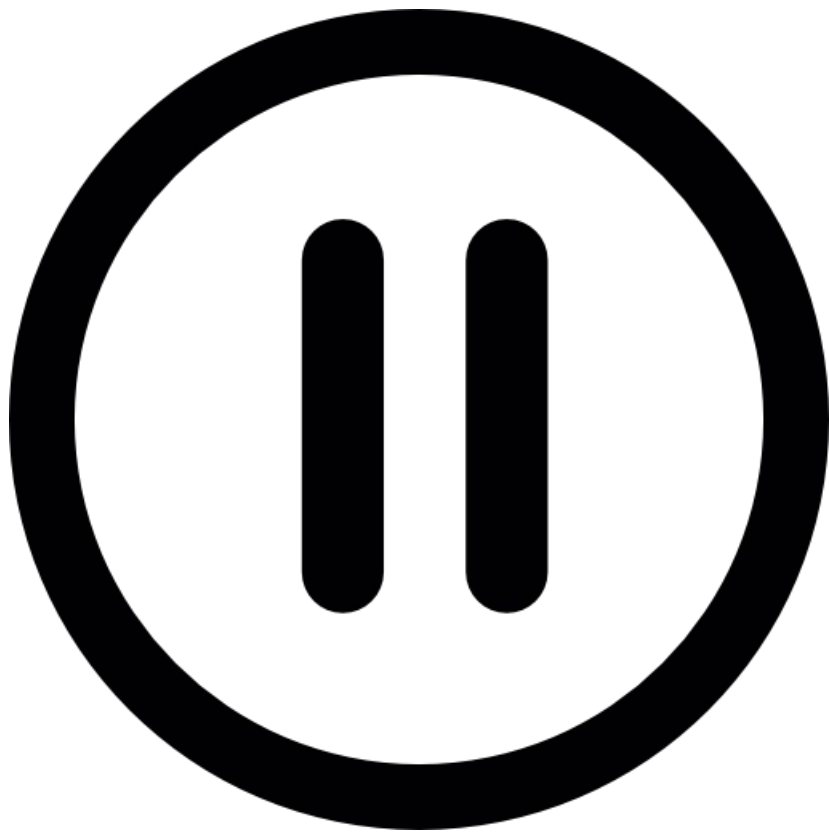


Technology never ceases to  
amaze me

## Task target:

- Path Finding
  - How to reach from A -> B
- Car control (path tracking)
  - Set throttle & steering to stay on road
- Object detection and avoidance
  - Detect people/other cars and avoid them

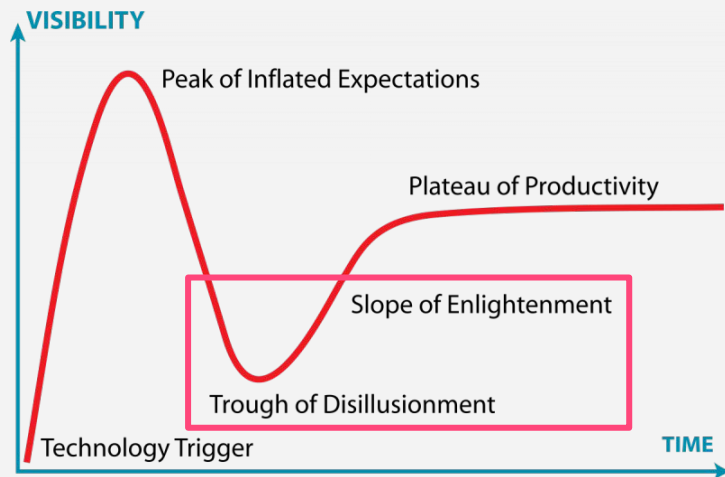
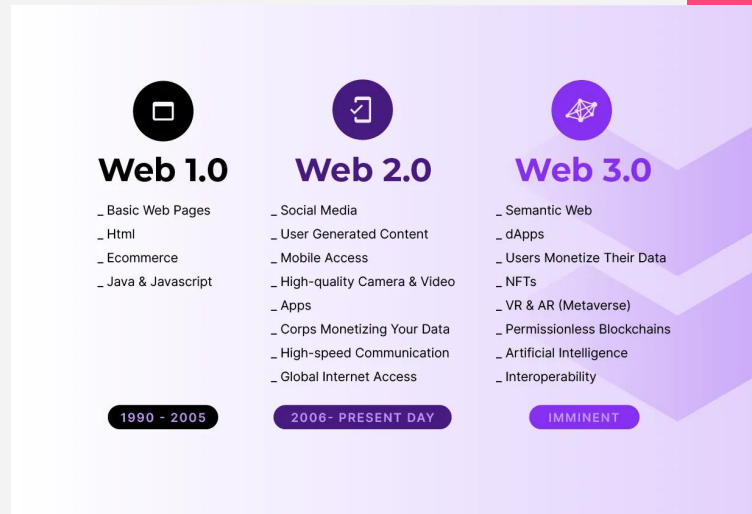
**Let's build an  
autonomous car!**





Why Web3?  
Because we  
are going to  
moon. 🚀

But its morning and the moon  
is down. Yes, we are going  
down 😭

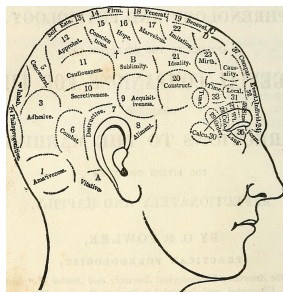




## Bonus Slide: What's Web?



A gazillion ways to create & host a server. How far are we from having more frameworks than the number of users using them?






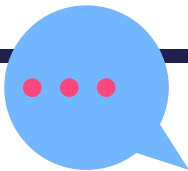
Me: Makes a small CSS change

My Site:



more  
stolen  
slides from  
previous  
talks.

⋮		Console	What's New
⊘	top	▼   Filter	
>	2 + 2		
<	4		
>	"2" + "2"		
<	"22"		
>	2 + 2 - 2		
<	2		
>	"2" + "2" - "2"		
<	20		



Am I techno king of Web3? Do I know all aspects?

**Nope, I barely know what it's about and what is going to happen.**



Nope? Well then, Honestly, What are we doing here?

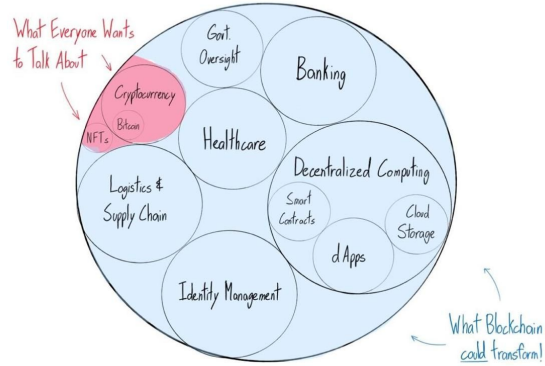
**We are going to talk about dApps and blockchains through some memes and weird analogies. Also about AI.**



I also have demo.

**Let's Talk**

# Blockchain's Use Cases



Blockchain is so much more than Bitcoin, NFTs, & Crypto!

Richard Schuler



**Blockchain,  
dApps, &  
smart  
contracts**

$b \rightarrow c \ 5$



$a \rightarrow b \ 2$

$b \rightarrow c \ 4$

$c \rightarrow a \ 1$

$a \rightarrow b \ 5$

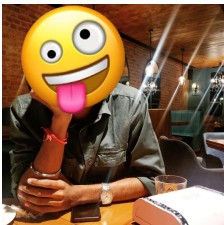
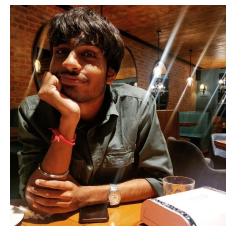
The promised  
weird  
analogies

$b \rightarrow \text{scam} \ 5$



CONSENSUS  
MECHANISM

$b \rightarrow c \ 5$





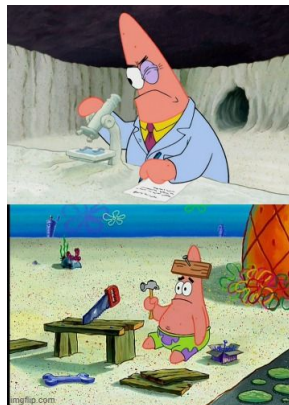
**Noob web3 enthusiast:** I build dApps. I am really ✨cool ✨. #web3 #crypto #nfts



**Veteran Blockchain Chad:** You're an:-

- An OOP developer who builds APIs for finance and expensive gifs. The development jail you're in is worse than the Java ecosystem. Not cool, just sad.
  - But if you can do it right, you're probably a really **smart programmer!** Hey! That's **cool**.
- You deploy your code to the decentralised equivalent of serverless functions present on the the ethereum network.
  - Yea, we get it you don't want to pay bezos but you're paying a random guy with costly computer in china. (Don't ask me about this guy's other ventures 🤔)

**What is a  
dApp.**



**SOLIDITY  
COMPILER  
DEALING WITH  
LARGE NUMBERS**

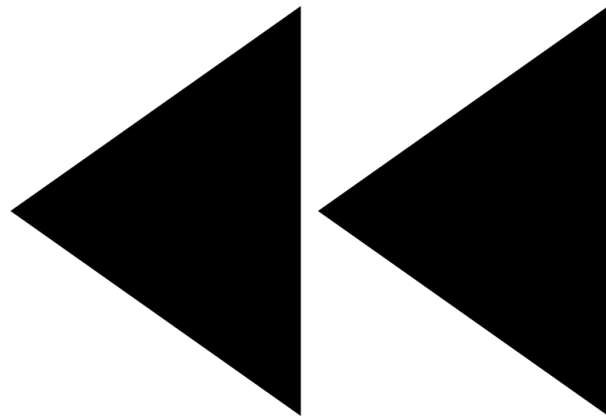
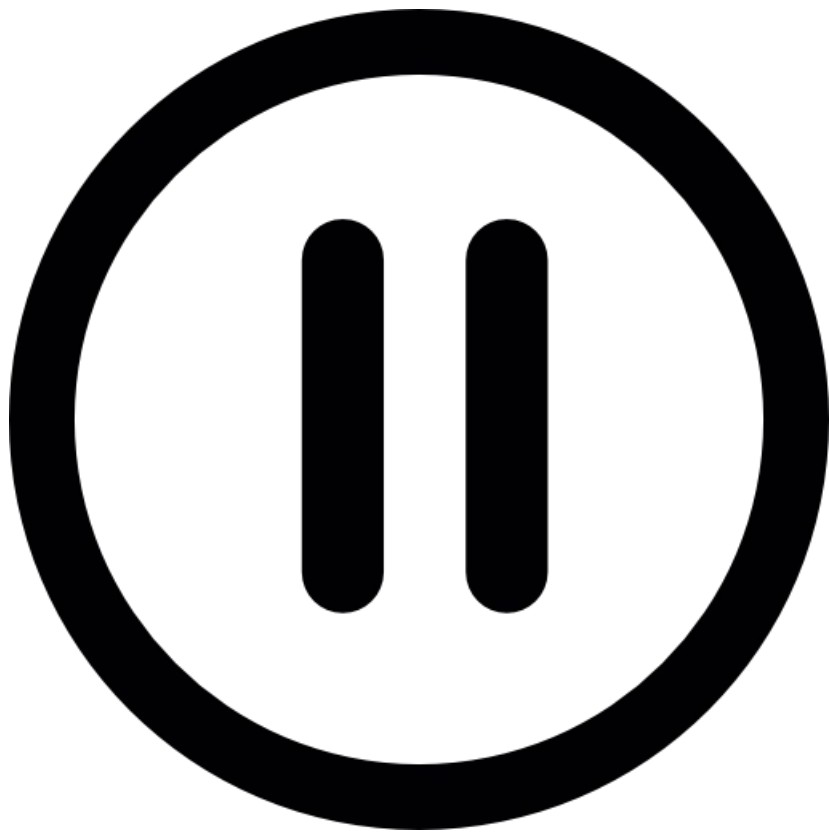
**SOLIDITY  
COMPILER DEALING  
WITH DECIMALS**

<https://remix.ethereum.org/>



## Let's build a pokedex on ethereum/polygon!





## AI/ML in Web3



### The Evolution of Marketing and the Web

#### Web 1

- Email Marketing
- Nascent SEO
- TV & Radio
- Print Ads

#### Web 2

- Social Media
- Data-Driven
- D2C
- Targeting

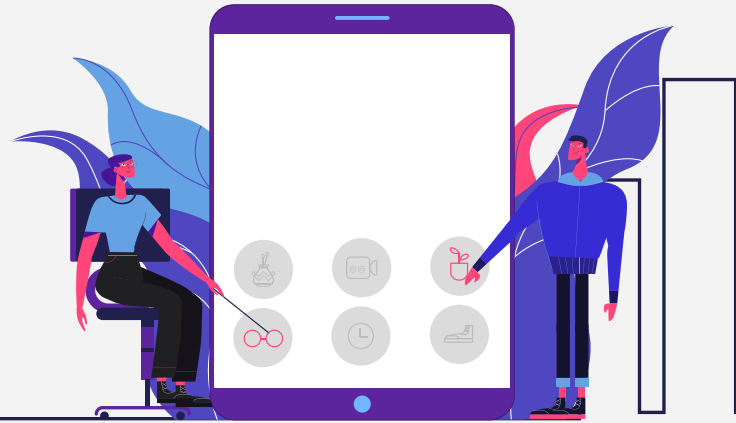
#### Web 3

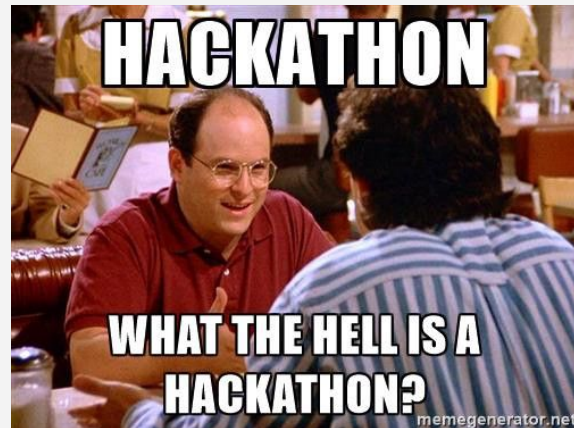
- NFTs
- Decentralization
- AI
- Tokenized

## Possibilities?

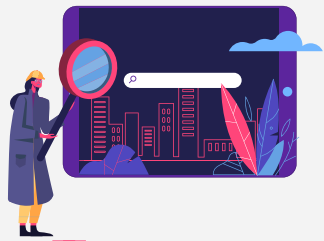
NLP	Data Mining and Analytics	Novel Learning Methods	Something Completely New
Natural language querying for blockchain data	Transaction analytics	Possibility of direct use of AI algorithms in cryptography	
NLP on dApps.	Supply chain analytics	Federated Learning via Blockchain	

# Projects in AI/ML





University



How to get started?

What? Where?

## My AI Projects.

Atleast, i can use them as examples in talks now.

- Computer Vision
- NLP/Time series
- General ML/Data
- Reinforcement learning

### Qupid

Build teams made for each other with the power of AI

### Smart Sampling Synthesiser

Use FFT like algo based on LinReg to replicate audio

### Fweelts

Detect sentiments from twitter data. Normal, Financial, Emotions.

### Stock Fundamental Prediction

Predict if a stock will go up in next 3 months on fundamentals

### Pollumeter

Detect future AQI by analysing time series data.

### Autonomous Car

Detect traffic signs, pedestrians and other cars. Lane Keeping

### Distributed City Surveillance

Detects guns and knives in public places

### AutoNet

Neural Networks Architecture search as SaaS

### Stereo Depth Estimation

Estimate depth from stereo images

### RL for Data Augmentation

Can we augment images in special ways which make information extraction easier?

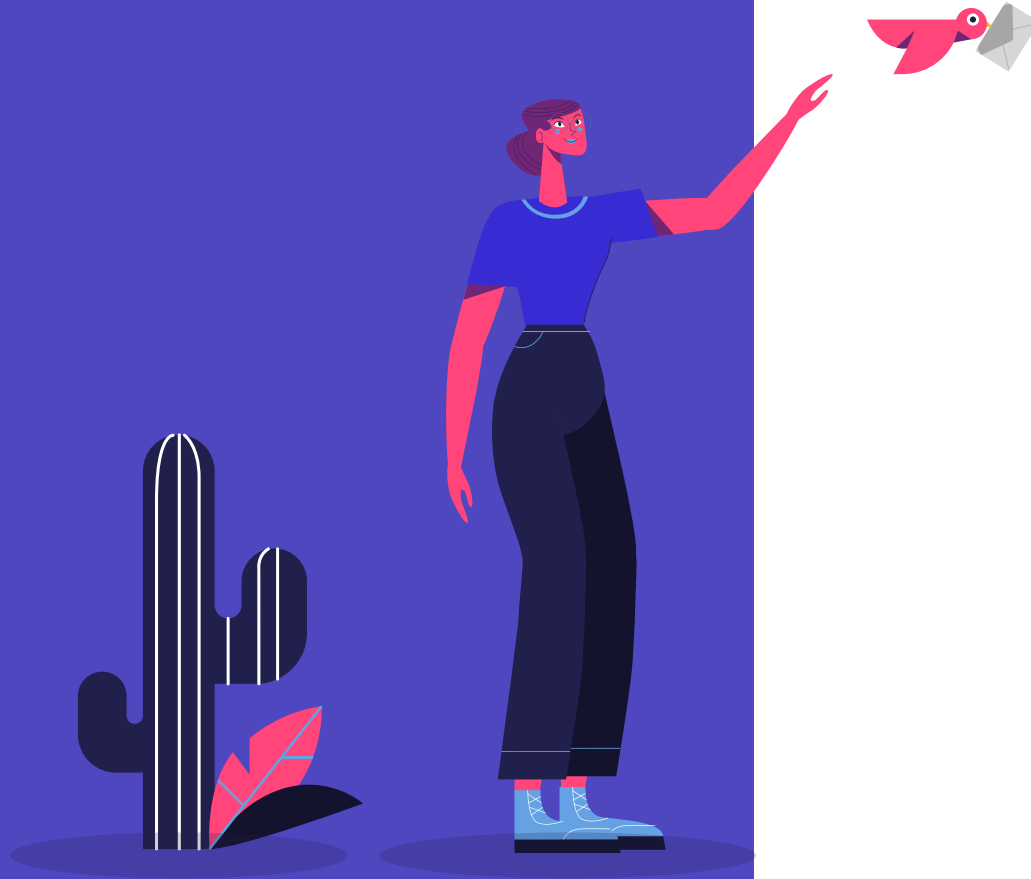
### Autonomous Greenhouse Control

Control greenhouse parameters using RL

### Congestion Control in Networks

Smart CC algorithm using RL





**THANKS!**  
**Any**  
**Questions?**