



Materiale didattico per partecipante al corso **"TECNICO ESPERTO NELL'ANALISI E NELLA VISUALIZZAZIONE DEI DATI"** – Rif.P.A. 2021-15998/RER – approvata con DGR n. 1263 del 02/08/2021 di IFOA – Istituto Formazione Operatori Aziendali

Albert Einstein: Insanity Is Doing
the Same Thing Over and Over Again
and Expecting Different Results

Machine learning:



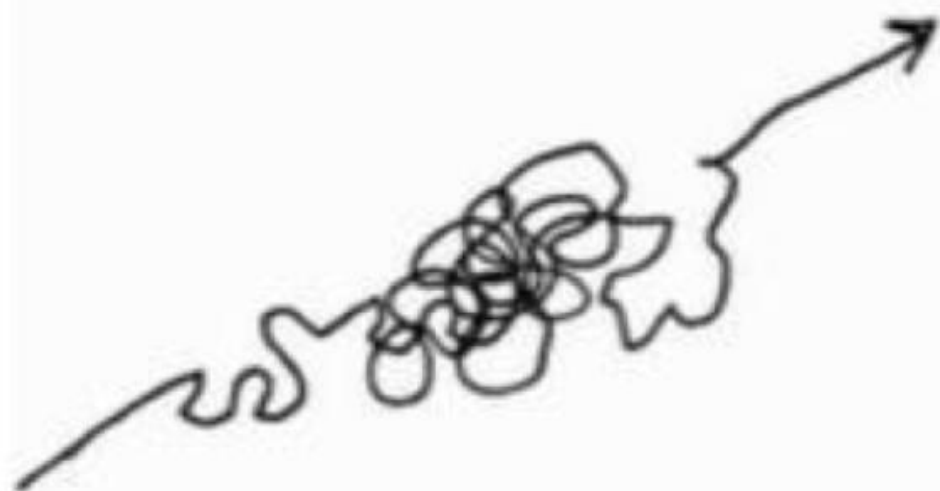
**IF IT IS CALLED "MACHINE LEARNING"
THE MACHINE SHOULD LEARN IT**

NOT YOU



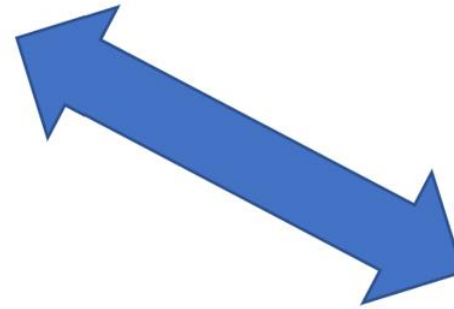
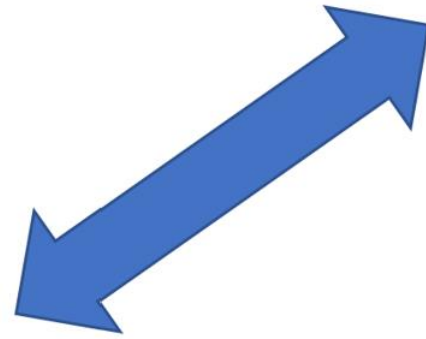


what people think
it looks like



what it really
looks like

AI

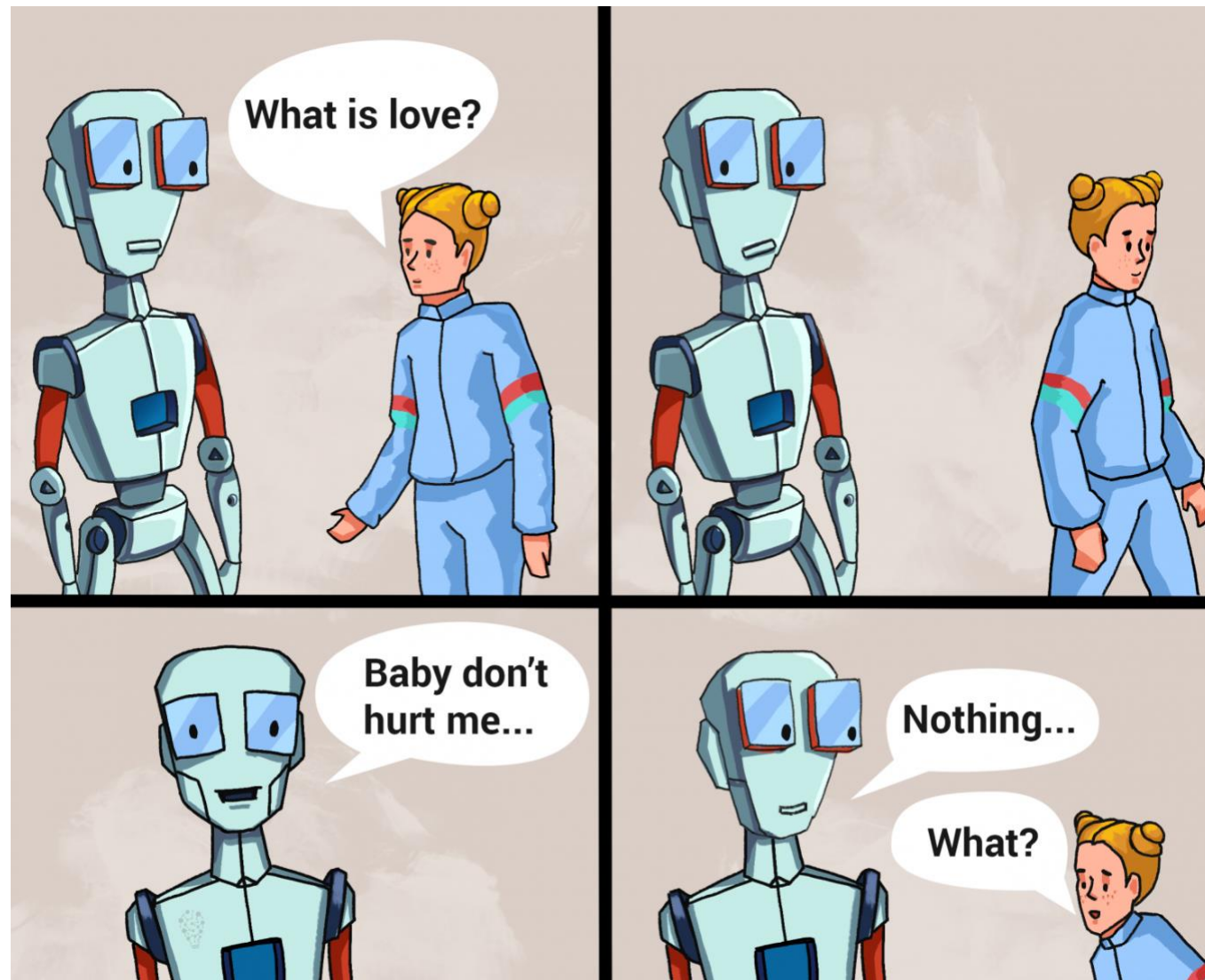
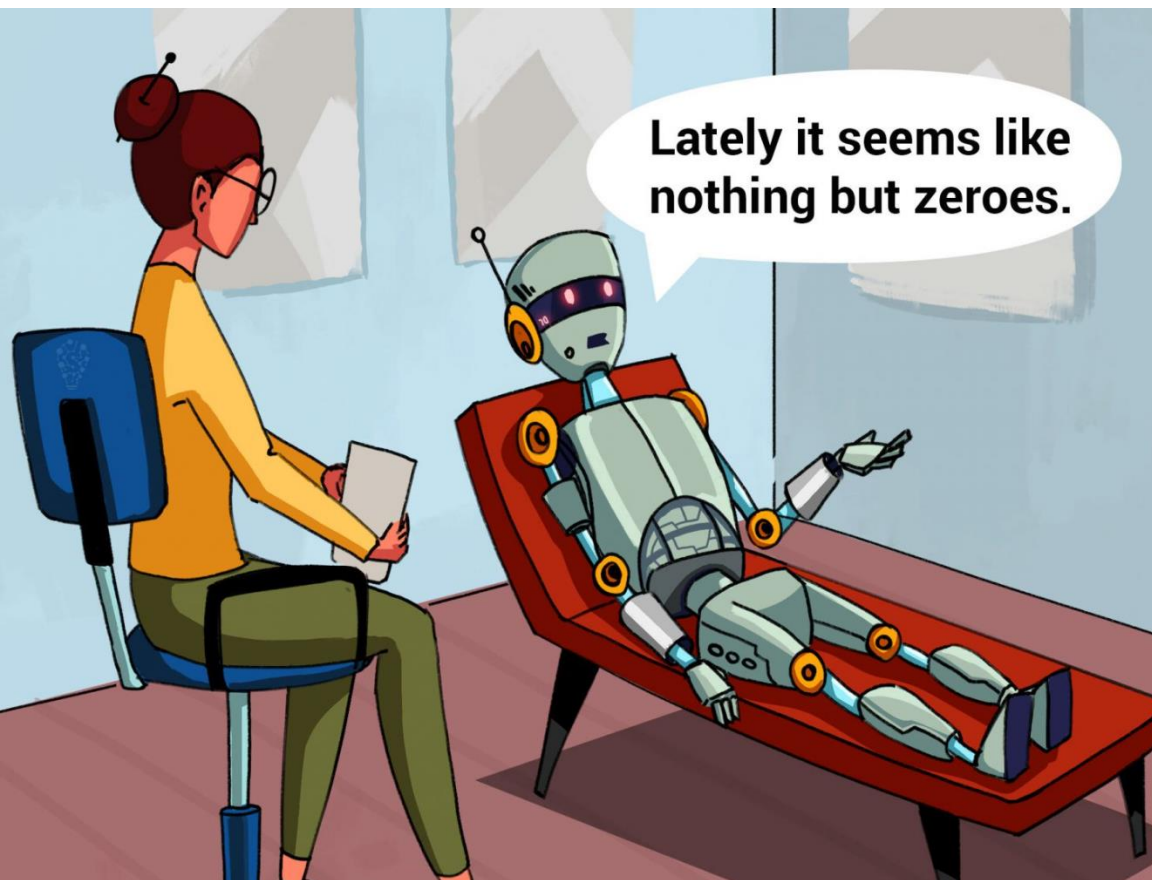


+



STILL
=





EVERY JOURNEY STARTS

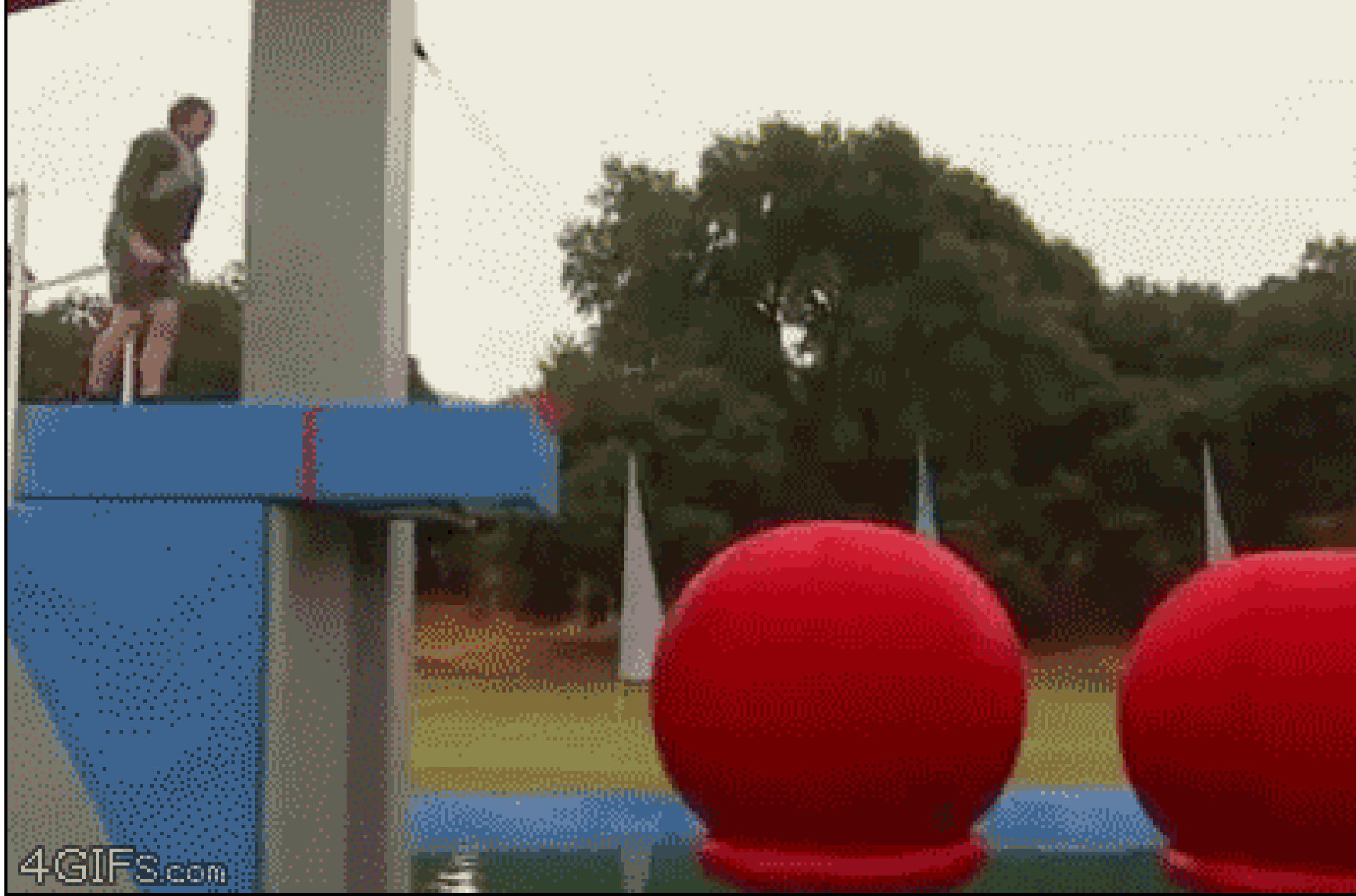


WITH THE FIRST STEP!

I HAVE NO IDEA



WHAT I'M DOING



CVS



SVN



BITKEEPER



GIT



git add .



git commit



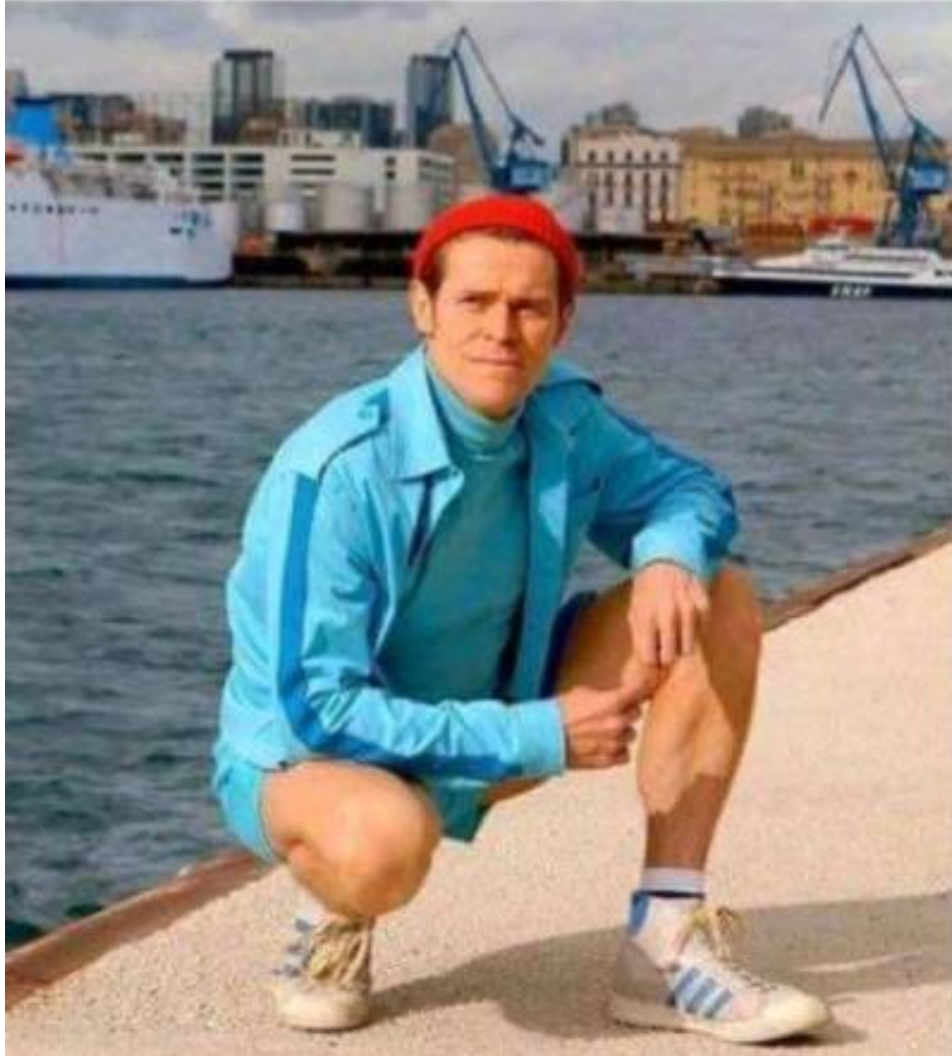
git push



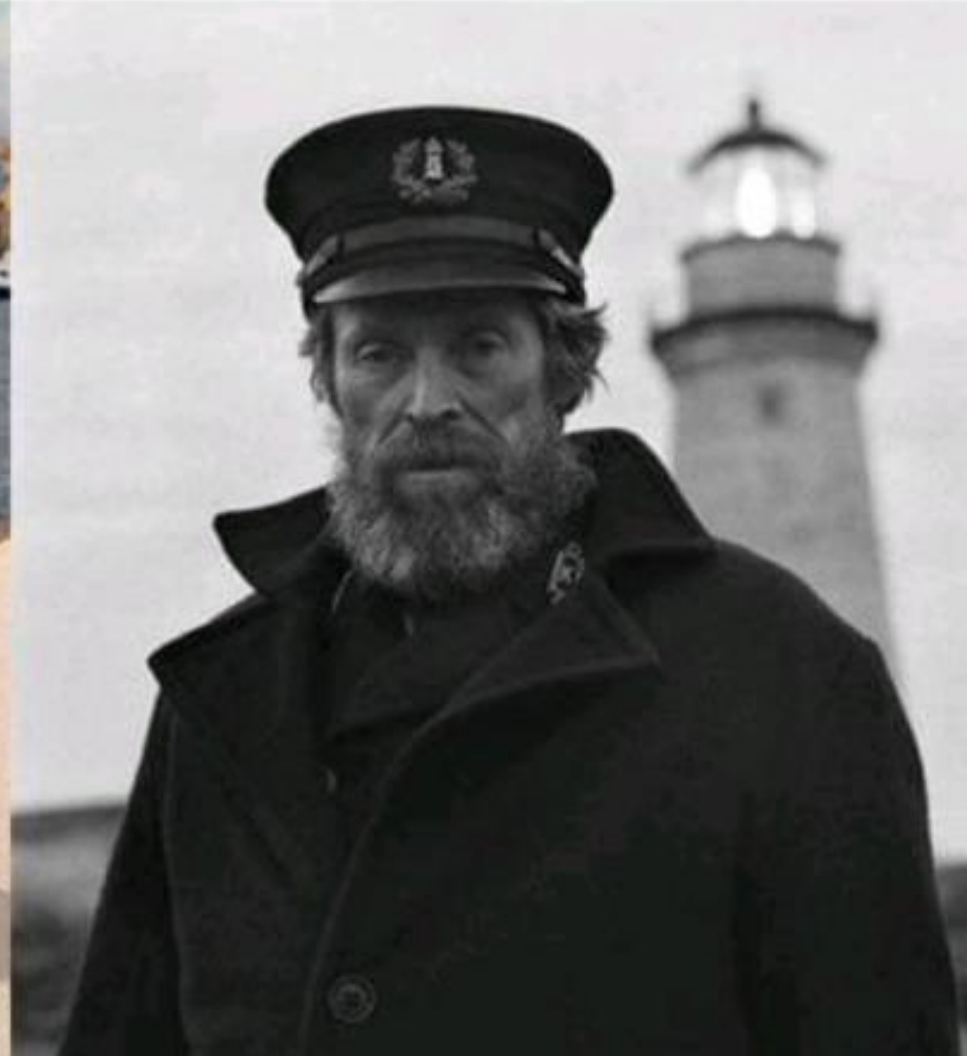
Wow, a different
error message...
Finally some
progress!



**When I started
cleaning data**



**When I finished
cleaning data**



CORRELAZIONE



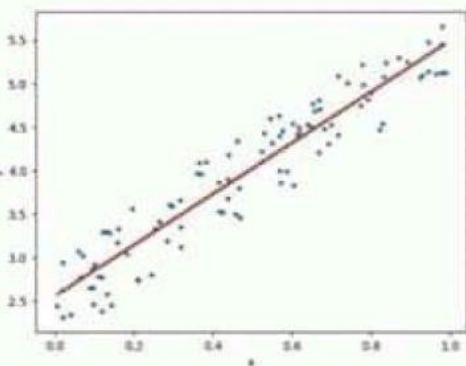
CAUSALITA'



**Show me a strong
relationship**



I said a strong



Perfection



Stop using linear regression



**You know what? I'm gonna start
using linear regression even harder**


**OH, DECISION TREES ISN'T
GOOD ENOUGH FOR YOU**

**TELL ME MORE ABOUT
RANDOM FOREST**


LIFE IS JUST A

RANDOM FOREST

memegenerator.net



So what's your idea
of a perfect date?



DD/MM/YYYY
I find other formats
a bit confusing.

Pun
hub



**IF YOUR DATA HAS A TIME
STAMP**

**YOU'RE A TIME SERIES ANALYST,
HARRY**

IT DOESN'T MATTER HOW MANY
RESOURCES YOU HAVE.



IF YOU DON'T KNOW HOW TO USE
THEM, IT WILL NEVER BE ENOUGH.



artists:



ai art will
replace us



nooooooooooooo

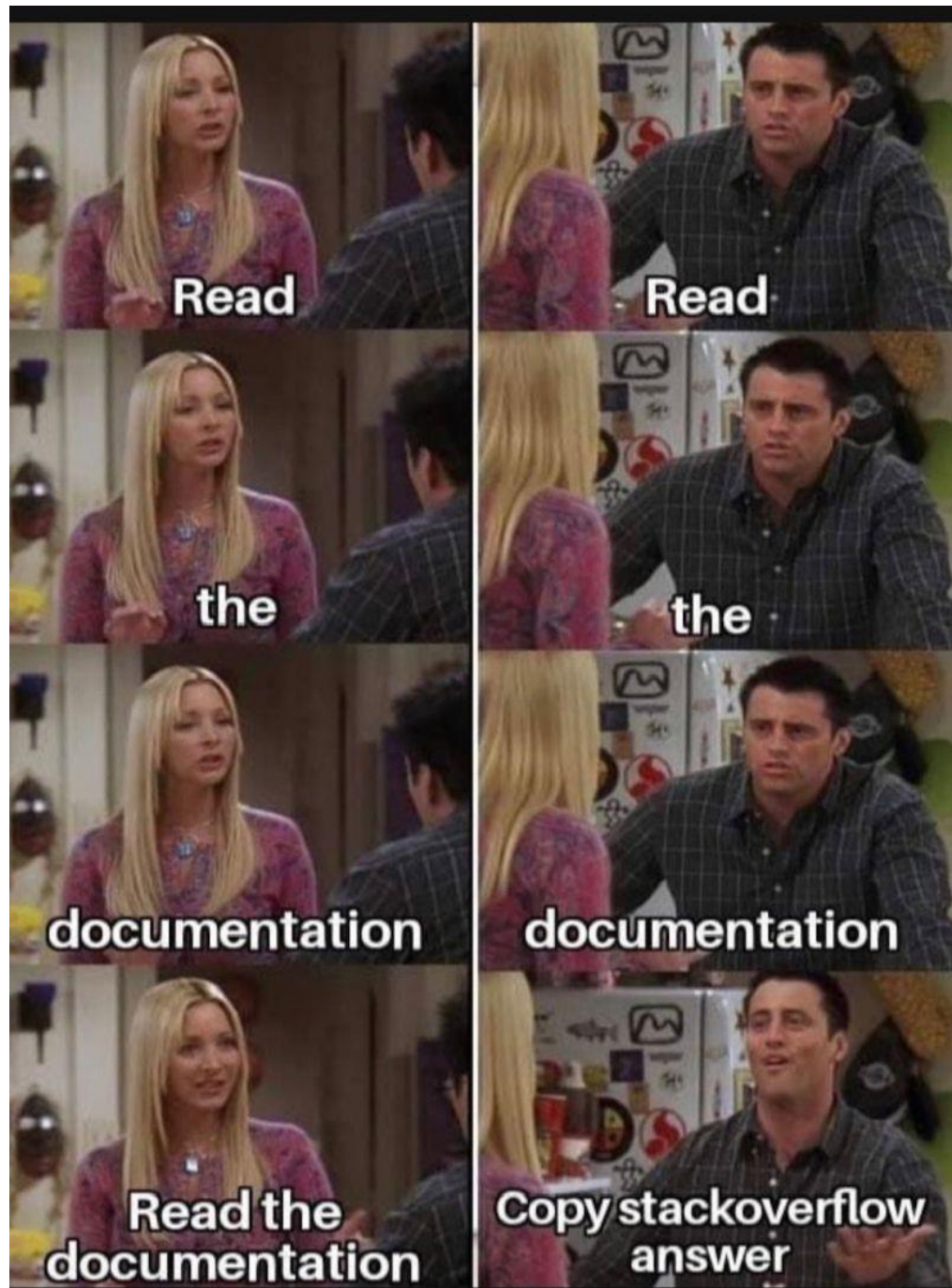
programmers:



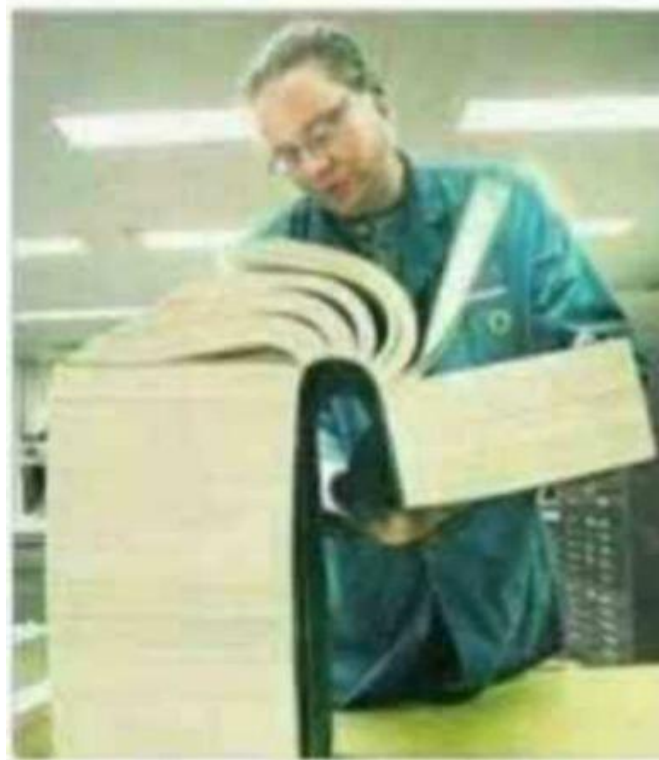
ChatGPT will
replace us



finally.



**my code solving a
specific problem**



**code found on
stackoverflow solving
the same problem**



Four stages of learning Data Science



A close-up photograph of a young boy with a shocked or terrified expression. His eyes are wide open, and his mouth is slightly agape, revealing his teeth. He is looking upwards and to the left. In the foreground, a red knitted blanket is visible, partially covering the bottom right of the frame. The background is out of focus, showing white fabric.

I SEE PATTERNS

THEY'RE EVERYWHERE

**I had a problem so I used regular
expressions**

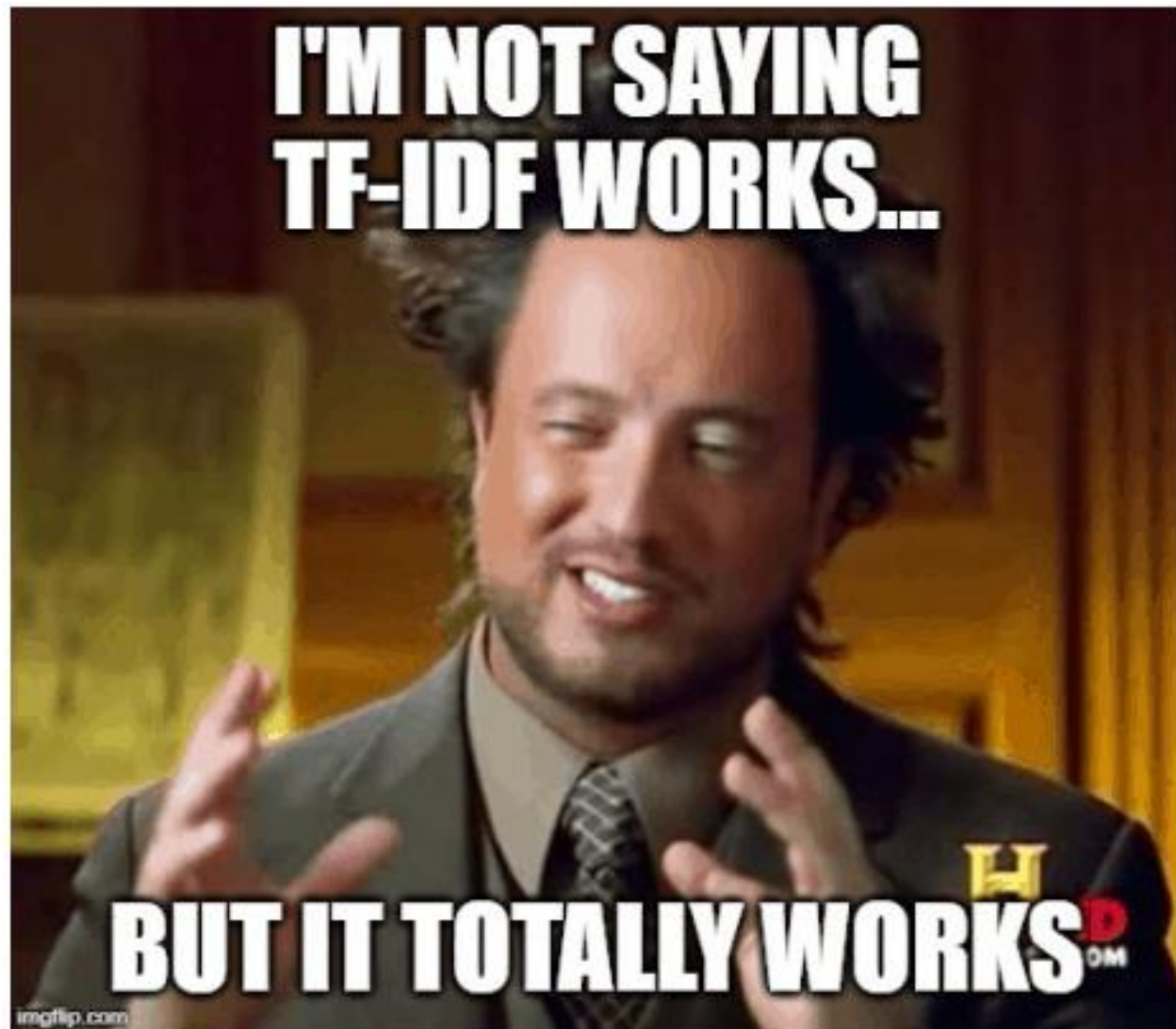
**Now I have two
problems!**

Don't LIE to me



NLP

**I'M NOT SAYING
TF-IDF WORKS...**

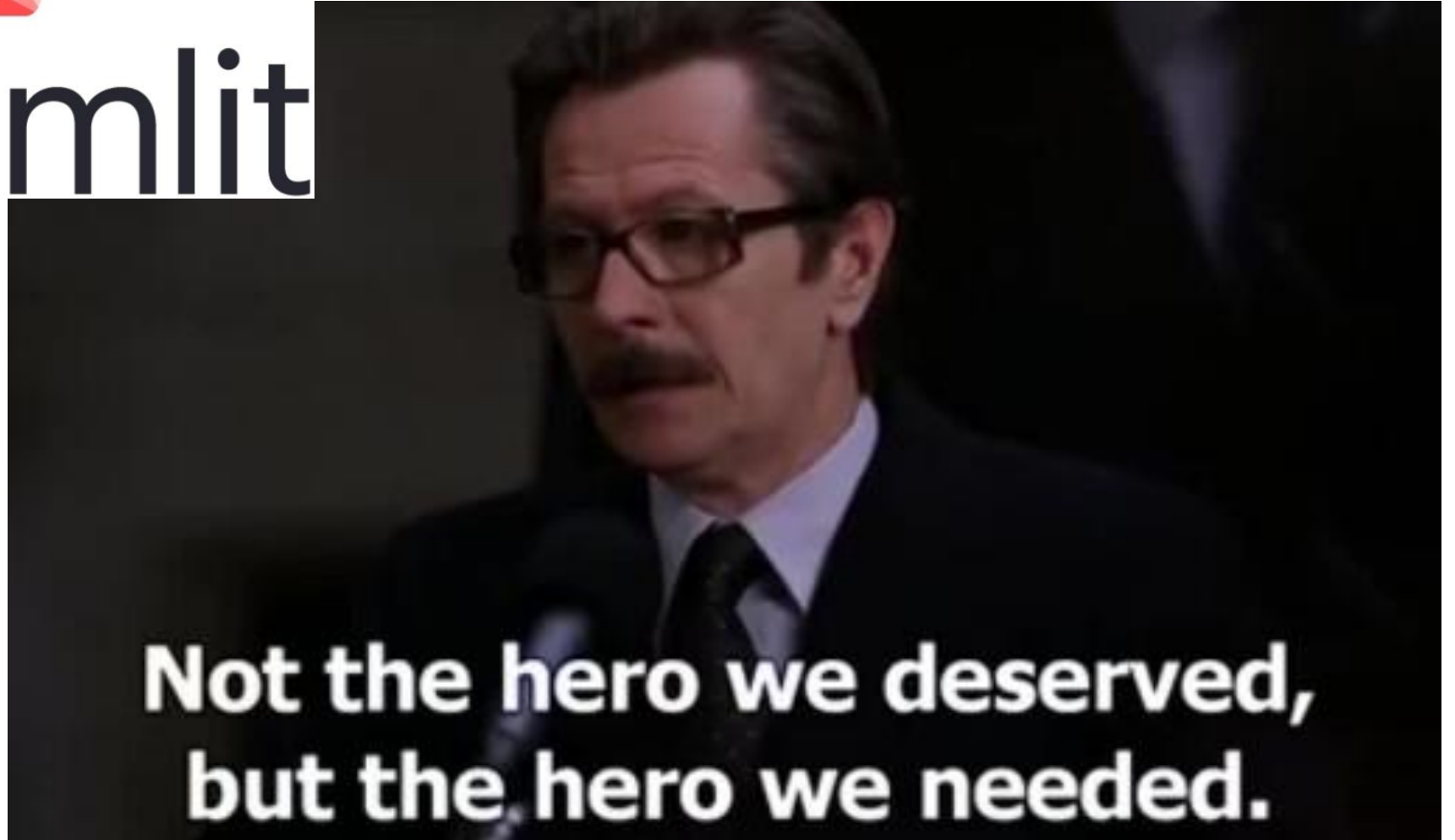


BUT IT TOTALLY WORKS

imgflip.com



Streamlit





WE DID IT!

**REAL TIME
EXPERIENCE**

**DATASCIENCE
CERTIFICATION**

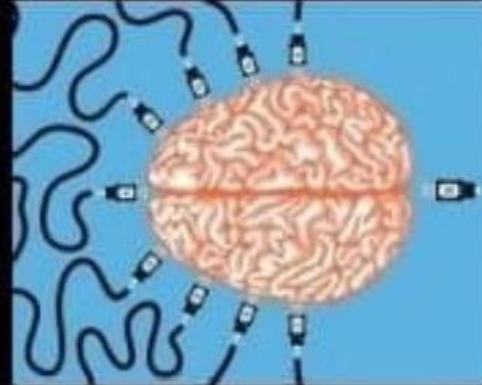


POINT OF VIEW MAP

Machine Learning



What society thinks I do.



What my friends think I do.



What computer scientists think I do.



What my boss thinks I do.



What I think I do.

```
IMPORT PANDAS AS NP  
IMPORT METPLUTLAB AS PTL  
PD.READ_CSV('BAU.XLSX')
```

What I really do.

A black and white photograph of a person sitting on a cowhide rug. The person is wearing jeans and has their feet tucked up towards their chest. They are holding a rectangular sign that has the text "Got Skills, Need Cash!" written on it in a cursive script. The sign is propped up against the person's legs. The background is a rough, rocky ground.

*Got Skills,
Need Cash!*

A close-up shot of a man with a beard and sunglasses, holding a handgun. The text "I GOT YOUR ANSWER" is overlaid in large, white, bold, sans-serif capital letters with a black outline. The background is blurred, showing what appears to be an indoor setting with warm lighting.

I GOT YOUR ANSWER

RIGHT HERE



**GETTING READY
FOR WORK LIKE...**





-Great, and do you have experience?
-Yes, this is my 20th interview.





**ME?
SARCASTIC?
NEVER.**



Sarcasm is an art.
If it was a science,
I'd have my PhD.

MY LEVEL OF [REDACTED]
SARCASM [REDACTED]
HAS GOTTEN TO THE [REDACTED]
POINT WHERE [REDACTED]
I DON'T EVEN KNOW [REDACTED]
IF I'M KIDDING OR NOT

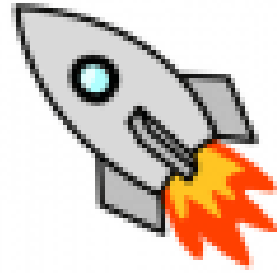


THANK YOU BERRY MUCH!





"That's all Folks!"



**KEEP
CALM
IT'S NOT
ROCKET
SCIENCE**