



AI & Africa



Zohra SLIM
CD&VO & Co-Founder - InstaDeep
GDG Carthage Co-Lead
WTM Ambassador

 @zazouws



Who am I?

My name is Zohra Slim.

Most people call me Zo.

Co-Founder and CD&VO of InstaDeep Ltd

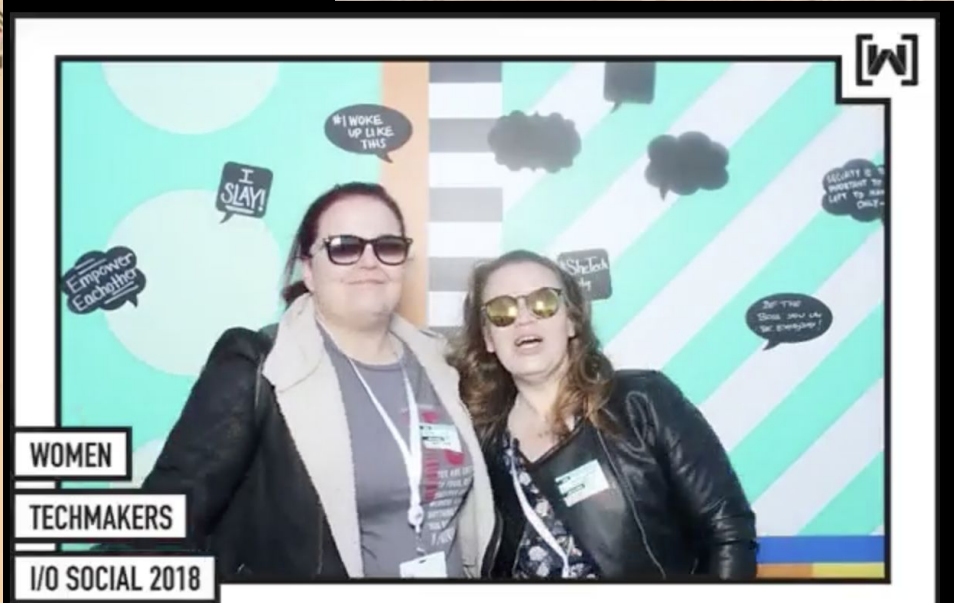
GDG Carthage Co-Lead

WTM Ambassador

Self-taught full-stack developer / Designer

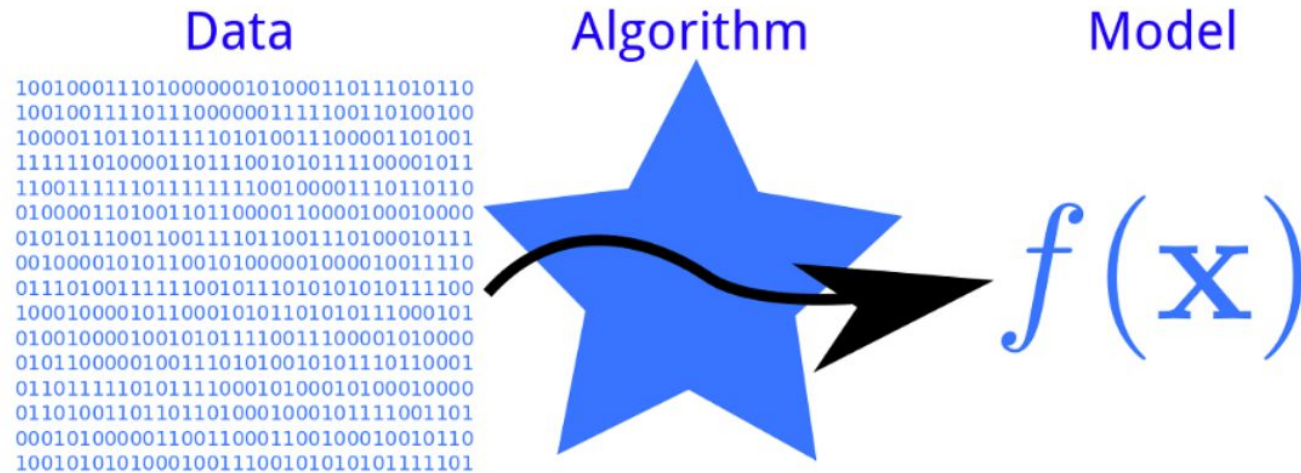
Jill-of-all-trades, master of many

Only have a French Baccalaureate (literary stream)



AI

What is Artificial Intelligence?



“Machine Learning is the science of getting computers to act without being explicitly programmed.”

Andrew Ng

AI Today

“AI = Reinforcement Learning + Deep Learning”

David Silver (AlphaZero's inventor) - Google DeepMind

Under the AI Hood

Reinforcement Learning

By experimenting, computers are figuring out how to do things that no programmer could teach them.



Deep Learning

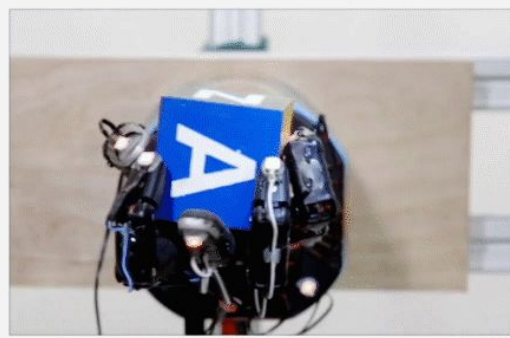
With massive amounts of computational power, machines can now recognize objects and translate speech in real time. Artificial intelligence is finally getting smart.



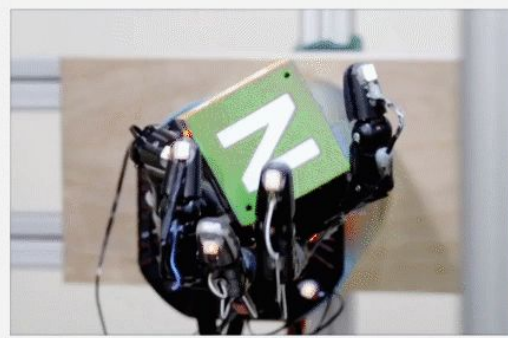
(MIT Tech Review)

Both in MIT TR 10 Breakthrough Technologies (2017 and 2013)

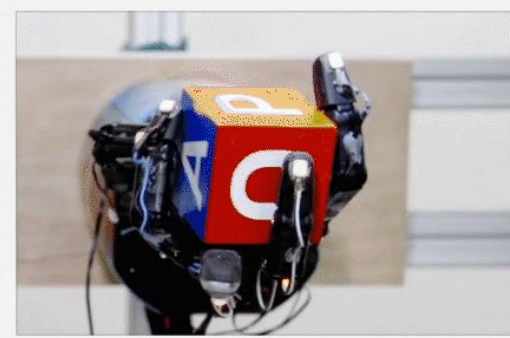
Reinforcement Learning (RL)



FINGER PIVOTING



SLIDING



FINGER GAITING



Programmers incentivised it to go from point A to point B

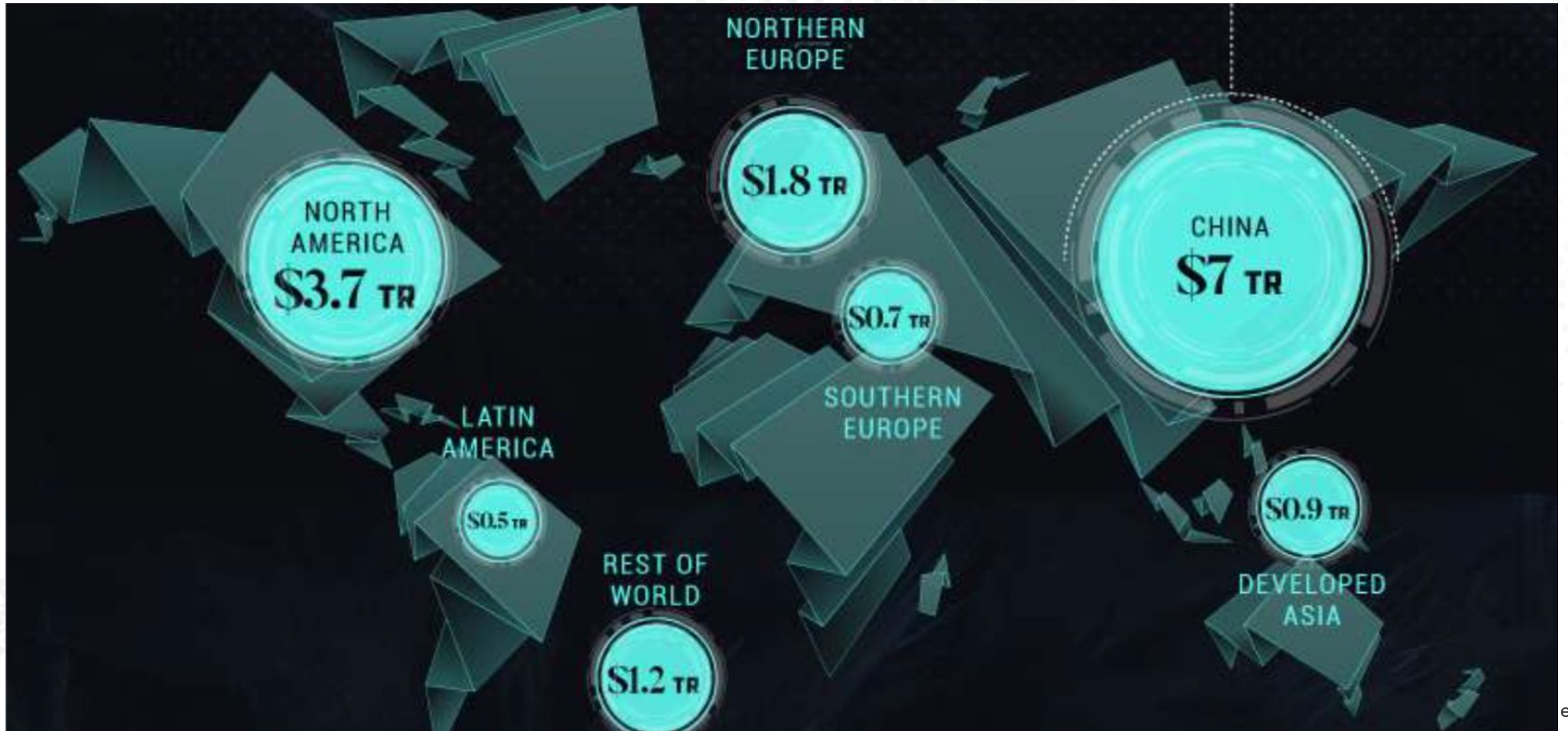
TECH INSIDER



100 Training Episodes

AFRICA

AI MAP



AI in Africa: It's NOW

The BIG companies see the impact

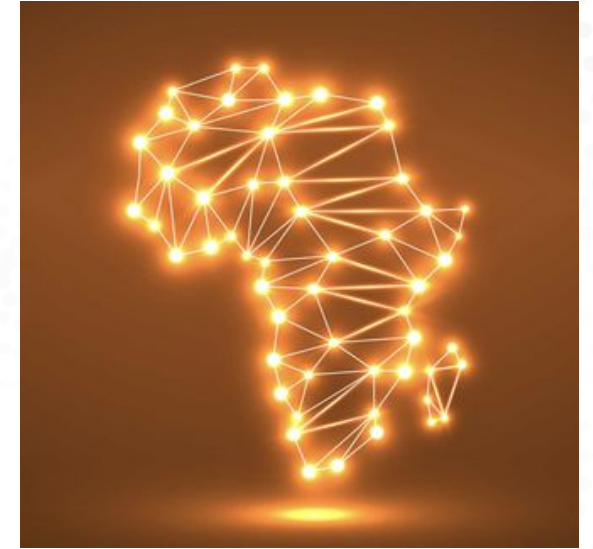
- Facebook present in Nairobi, Kenya
- Google AI opened a research center in Ghana
- Masters of Machine Intelligence in Rwanda (AIMS), backed by Facebook

Initiatives

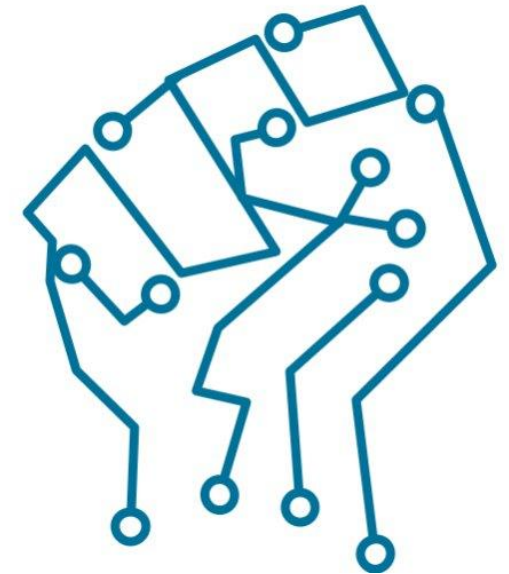
- Black in AI
- AI Saturdays
- Data Science Africa
- AI for Good
- Google Developer Groups, Launchpad
- Deep Learning Indaba

AI is still pretty new

- Low barrier to entry: No need to play catch-up
- No Governmental problems



**DEEP
LEARNING
INDABA**





InstaDeep @instadeepai · 7 janv.

Humbled to be named the "Number one #AI start-up in #Africa" by @alliance4ai in their 2019 recap post! We are proud to work with our partners on the continent and beyond to improve lives and keep building cutting-edge AI products. Read the article here bit.ly/Alliance4AI_In...

The Champions of 2019



InstaDeep a retweeté



TechCabal @TechCabal · 16 déc. 2019

How two Nigerian AI engineers built the world's first pidgin-to-English translation model dlvr.it/RLMxzf



How AI can help underrepresented languages

InstaDeep™

iCompass



TunBERT

InstaDeep™ iCompass

April 13, 2021
9:00 AM - 9:40 AM BST

E31242: Building a Pre-Trained Contextualized Text Representation Model for Underrepresented Languages: Tunisian Dialect Use Case



Nourchene
FERCHICHI
INSTADEEP



Hatem
HADDAD
ICOMPASS

NVIDIA
GTC²¹
APR 12 -16



Thank You

