

ITU Regional Forum on Emergent Technologies

Big Data: Trends & Challenges

Place: Africa Hotel, Tunis, Tunisia

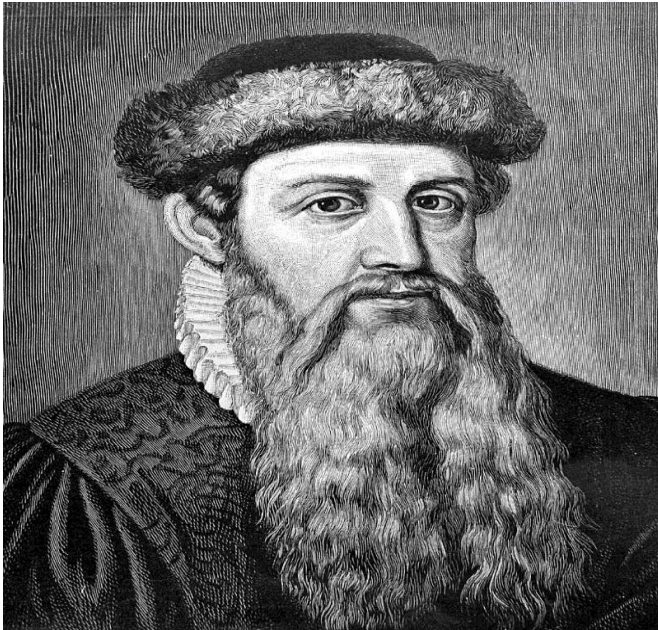
Date: April 23, 2019

Presenter : Dr. Mohamed Hamdi



Once upon a time...

- 1454 : First printing machines
 - Gutenberg



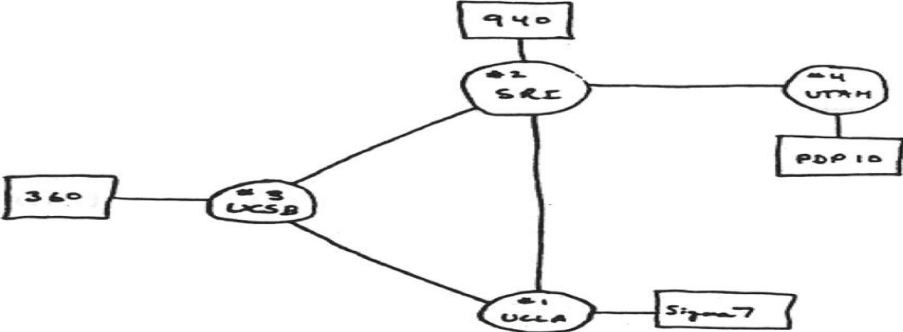
Once upon a time...

- 16th Century :
 - New industries : paper manufacturing, book printing, ...
 - Information : Democratization of knowledge (read, learn)



Once upon a time...

- 1960s : First Internet Architecture
 - DARPANET



THE ARPA NETWORK
DEC 1969
4 NODES



Once upon a time...

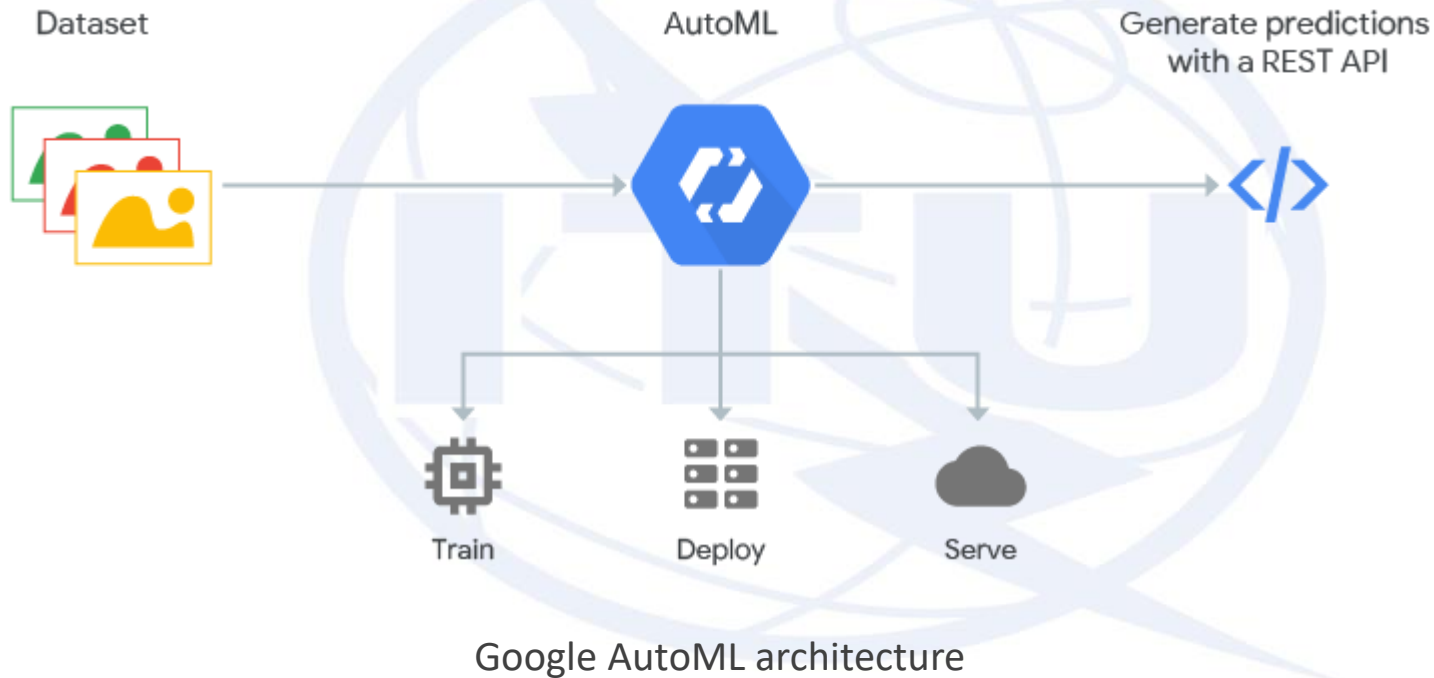
- 21st Century :
 - New technology trends : social networks, IoT, blockchain, ...
 - Information : Democratization of knowledge (write)



Trends???



AutoML



Democratization
of problem
modeling

Tries out various models and gives you the best possible hyperparameters for your scenario **automatically**

Platform interoperability

Standard in which deep learning networks can be represented as a directed acyclic computation graph which is compatible with every deep learning framework available today:

1. TensorFlow
2. Caffe
3. Theano
4. Torch & PyTorch
5. Keras
6. MXNet
7. Chainer
8. CNTK

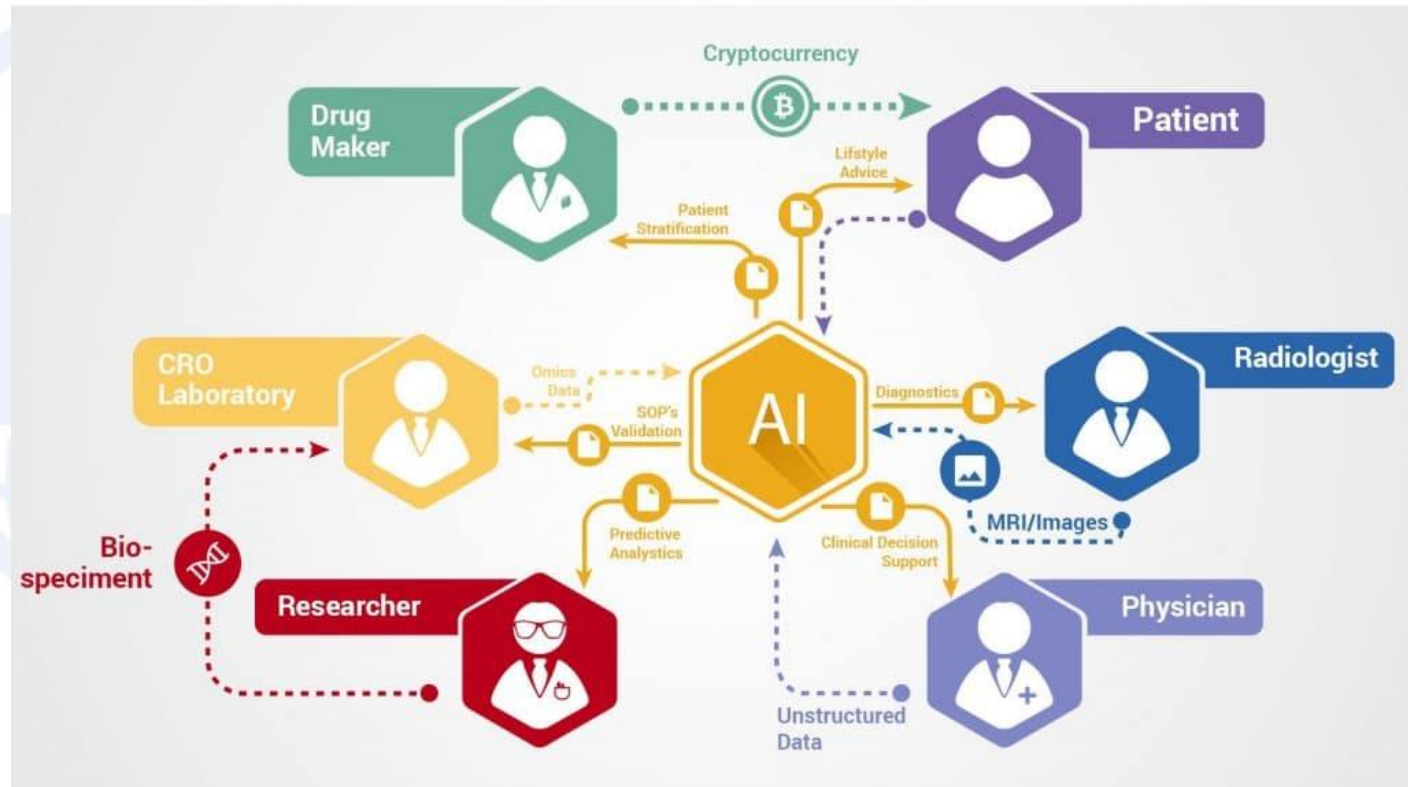
Democratization
of platform usage



AI-as-a-Service

Democratization
of service
provision

Artificial Intelligence As A Service





Thank you

