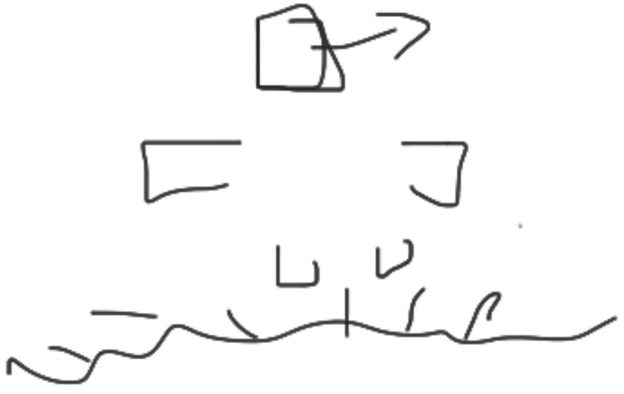
Artificial Intelligence
AI

1956

John McCarthy

It is a program that can sense, reason, act and adapt like human or try to mimic human behaviour.

Machine to mimic human behaviour



Machine Learning
ML

CPU

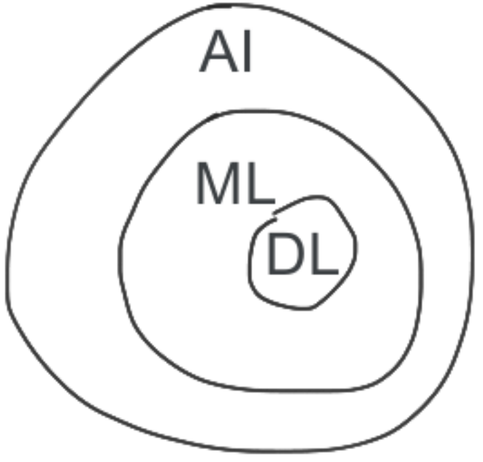
1959

Training Time: Less
Testing Time: More

Arthur Samuel

It is an algorithm that tries to improve the performance as they are getting experience with more data over data.

Machine to 'Learn'



Deep Learning
DL

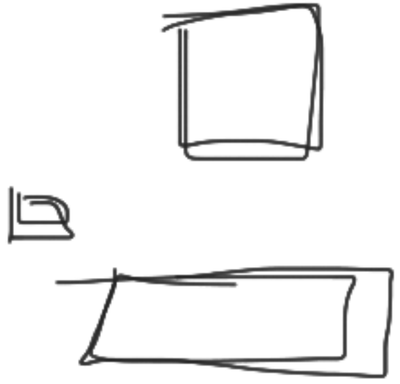
GPU

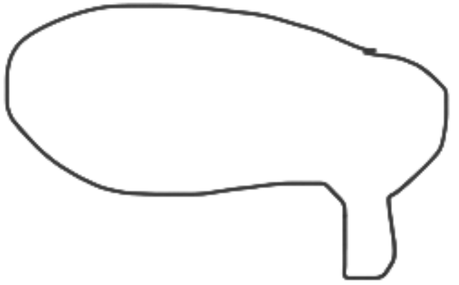
Training Time: More
Testing Time: Less

2000

Igor Aizenberg

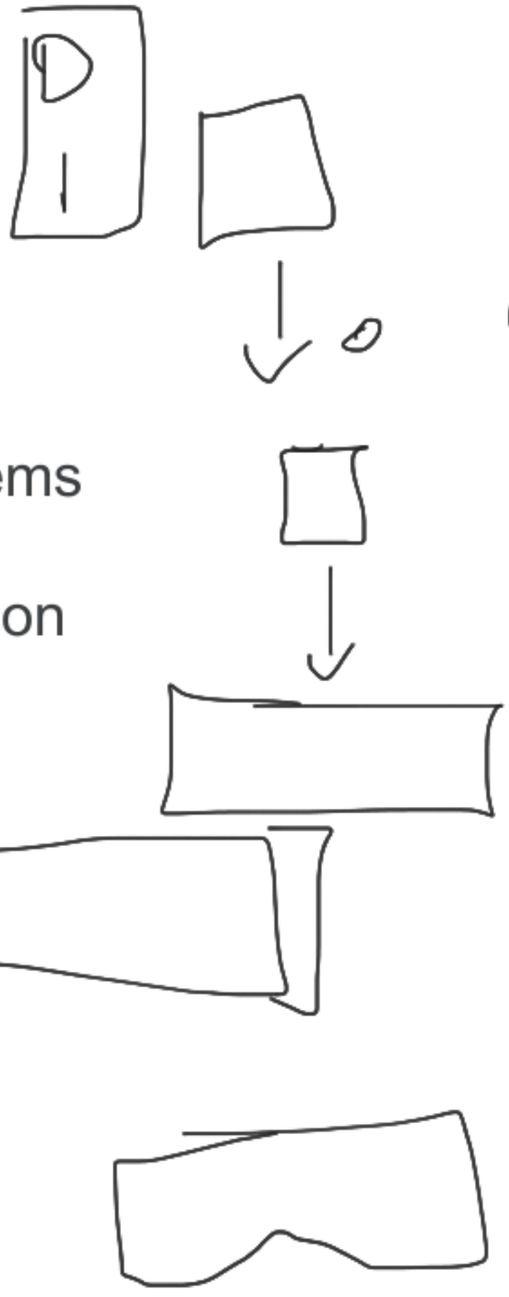
It is an algorithm that is inspired by the structure and functioning of humain brain.





WHY?

- Huge Data
- Complex Problems
- Feature Extraction

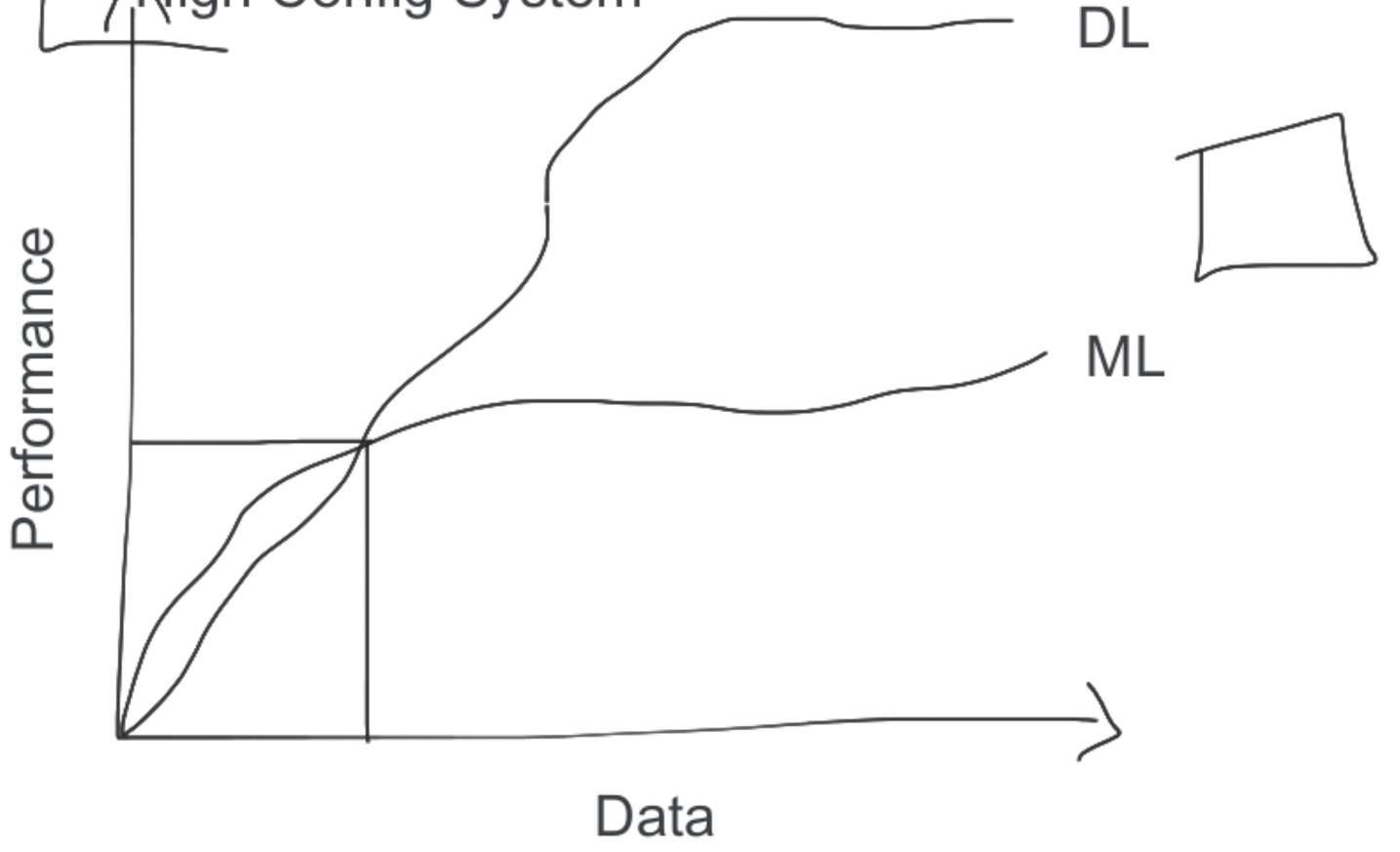


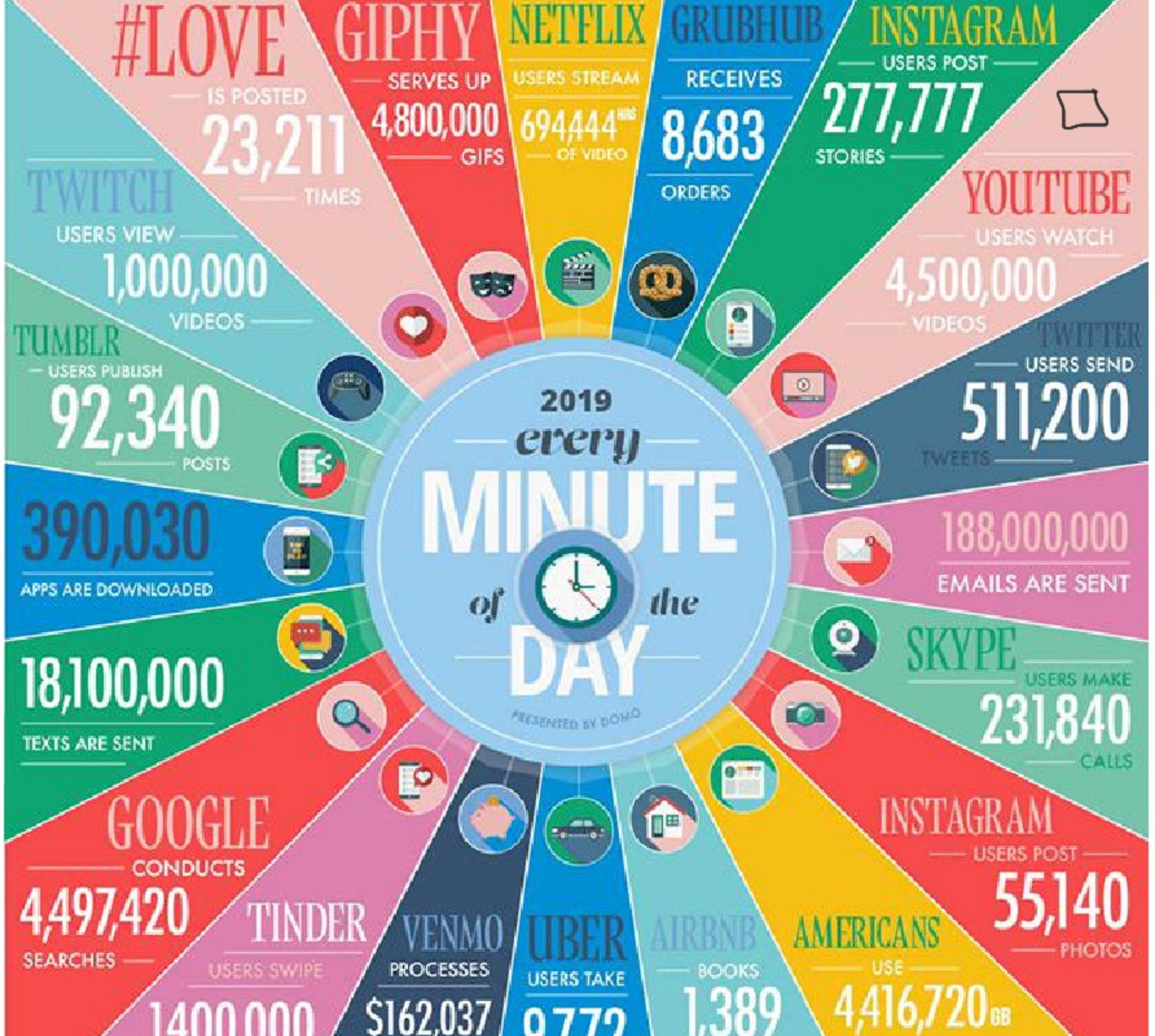
ML. 86.78%
DL - 83.89%

Big Data

High Storage
High Computation Power
High GPU
High Cost
High Config System

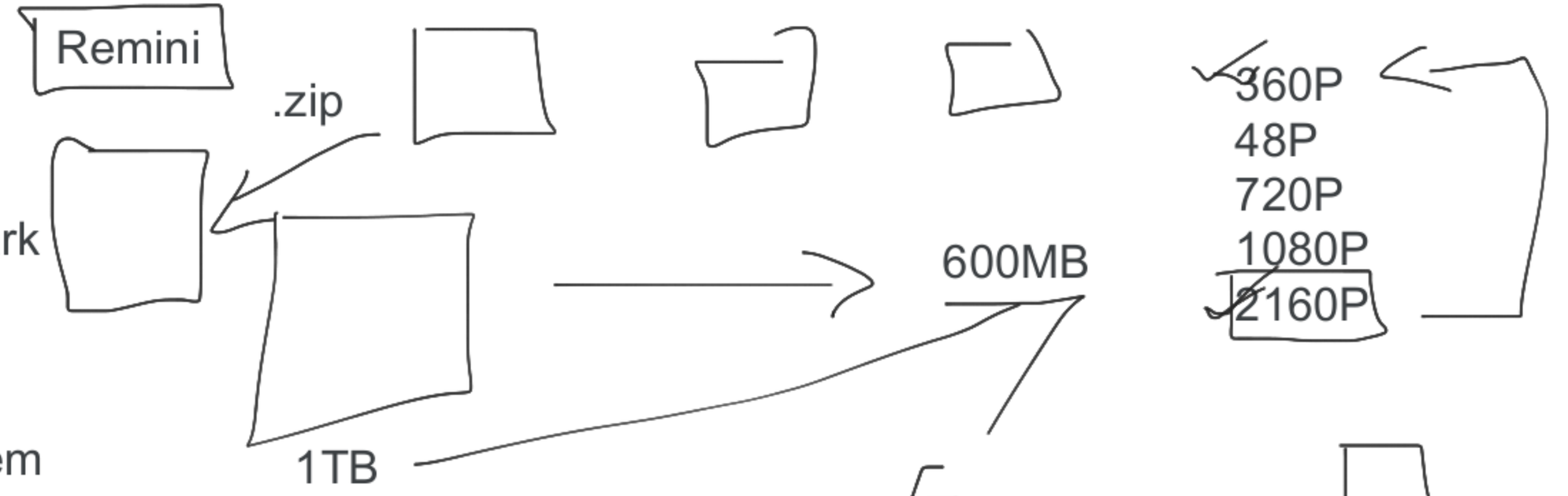
Medical field
Robotics
Self Driving Cars
Translation




2019
every
MINUTE
of the
DAY
PRESENTED BY DOMO
#LOVE
IS POSTED
23,211
TIMES
GIPHY
SERVES UP
4,800,000
GIFS
NETFLIX
USERS STREAM
694,444 HRS
OF VIDEO
GRUBHUB
RECEIVES
8,683
ORDERS
INSTAGRAM
USERS POST
277,777
STORIES
TWITCH
USERS VIEW
1,000,000
VIDEOS
YOUTUBE
USERS WATCH
4,500,000
VIDEOS
TUMBLR
USERS PUBLISH
92,340
POSTS
TWITTER
USERS SEND
511,200
TWEETS
390,030
APPS ARE DOWNLOADED
188,000,000
EMAILS ARE SENT
18,100,000
TEXTS ARE SENT
SKYPE
USERS MAKE
231,840
CALLS
GOOGLE
CONDUCTS
4,497,420
SEARCHES
INSTAGRAM
USERS POST
55,140
PHOTOS
TINDER
USERS SWIPE
1400000
VENMO
PROCESSES
$162,037
UBER
USERS TAKE
9772
AIRBNB
BOOKS
1,389
AMERICANS
USE
4,416,720 GB

Big Data

Hive
Apache Spark
Data Bricks
PySparks
Hadoop
HDFS System

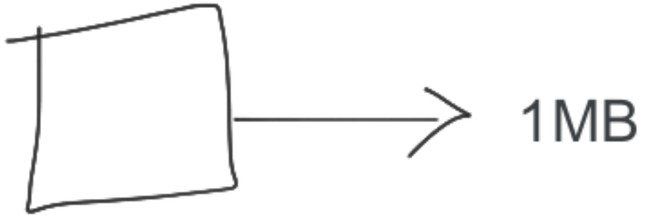


16GB WQA+

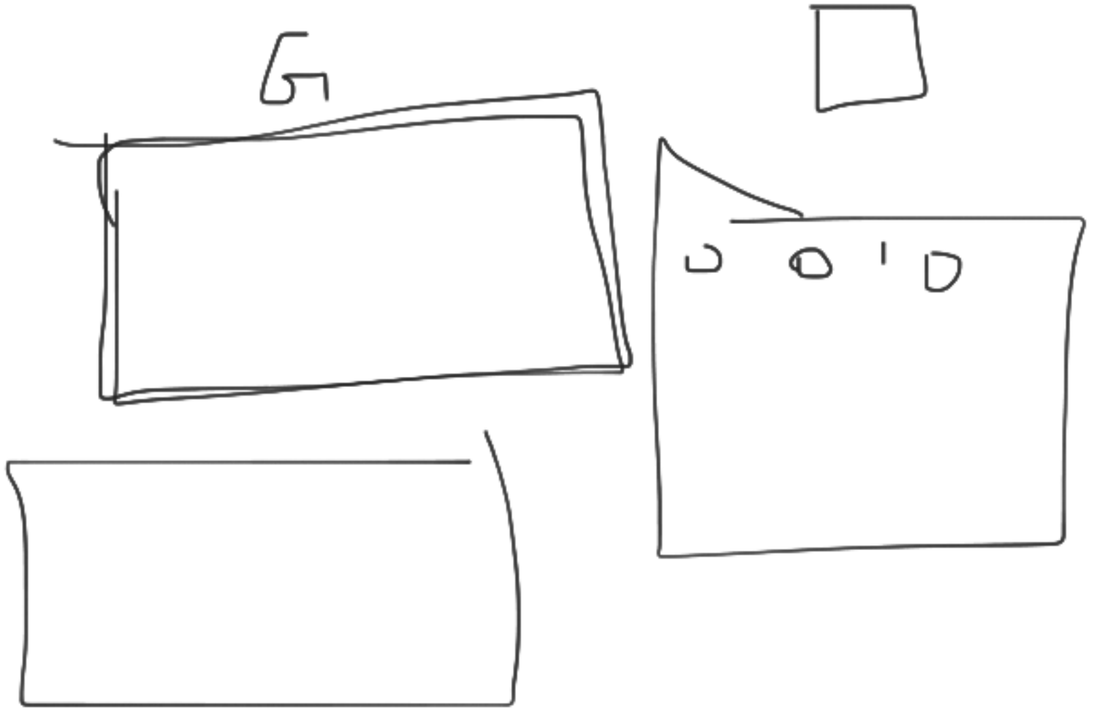
64GB AR

128GB echoAR
SparkAR

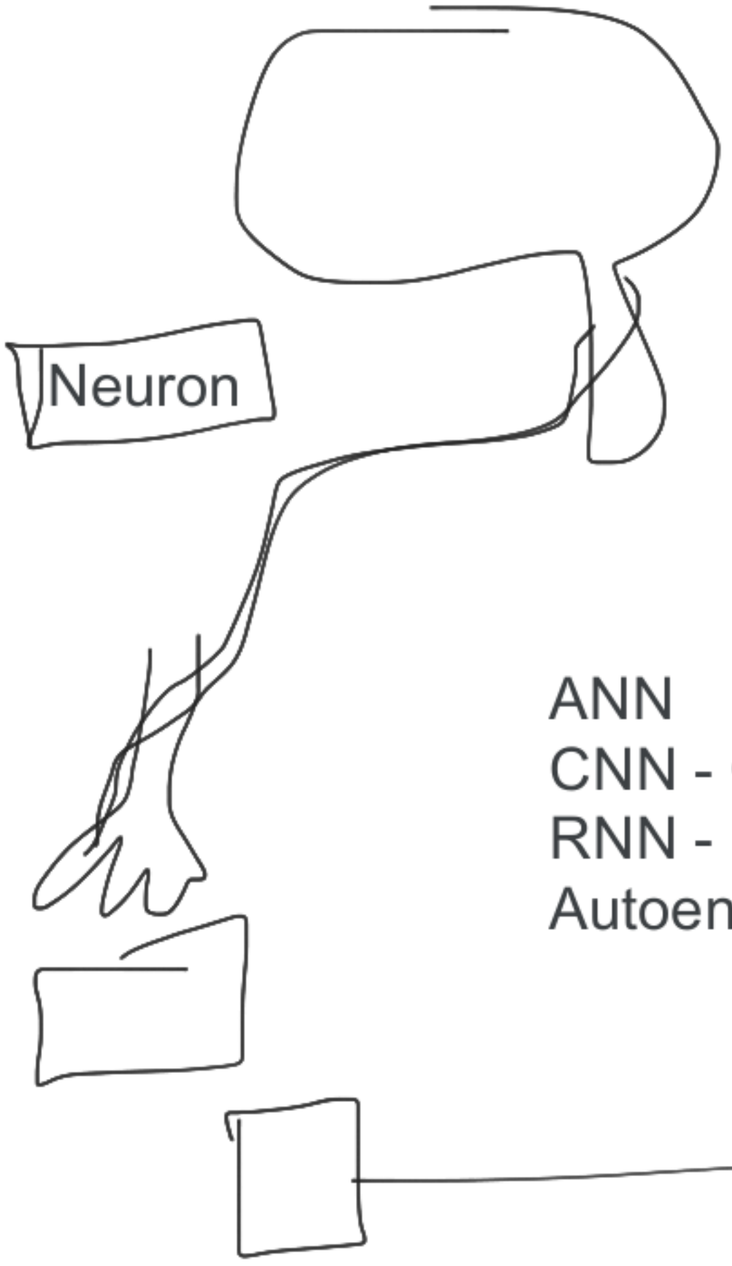
256GB C#
LIDAR
Unity

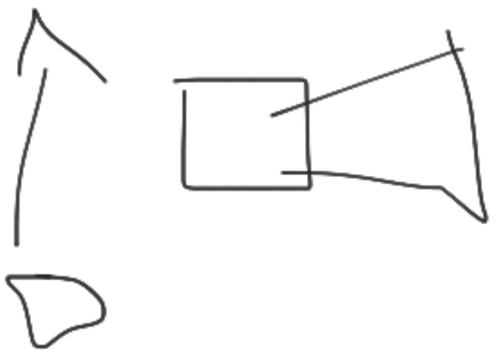


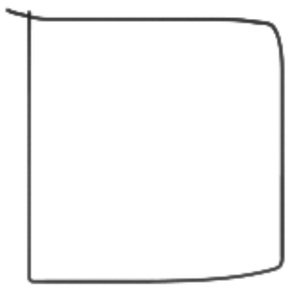
100MB -> 10
100MB -> 100

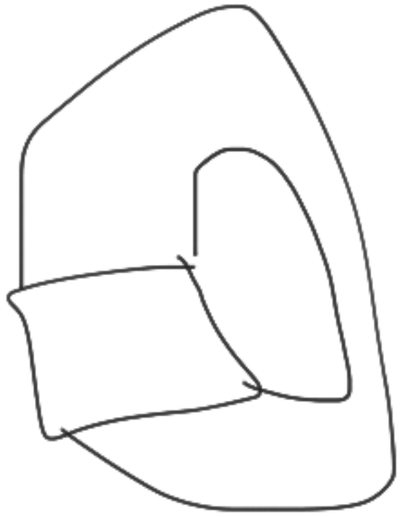
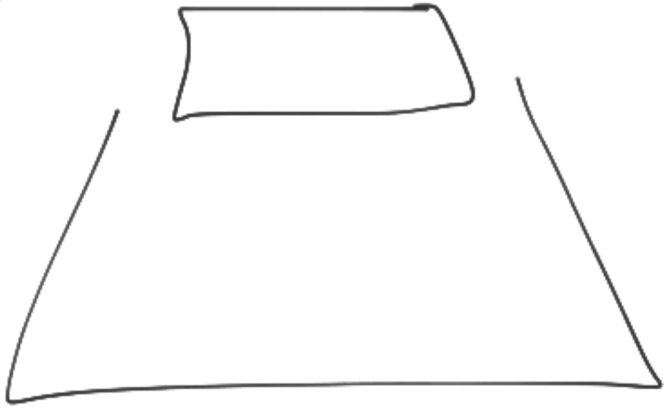
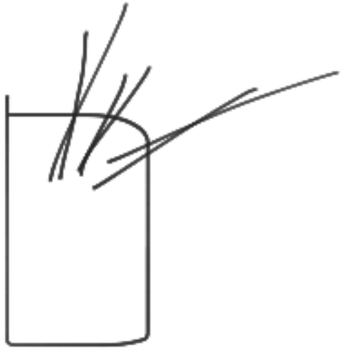


Artificial Neural Network - ANN









ANN
CNN - Computer Vision & Image Processing
RNN - NLP (NAturaL LANGUAGE PROGCESSING)
Autoencoders & GANs