

Deep Learning with video

The People, Problems, Data, and Deployments that work ...

and those that fail *@bentaylordata*

@bentaylordata

2002

19 credits

-15F

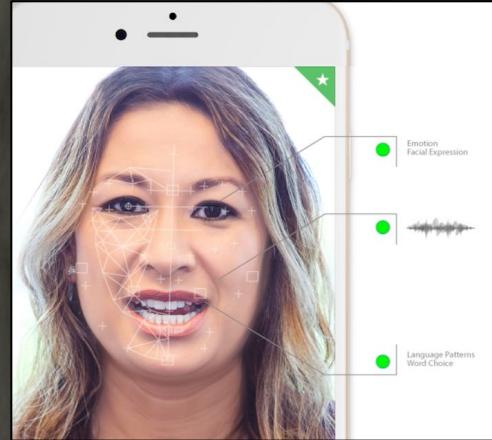
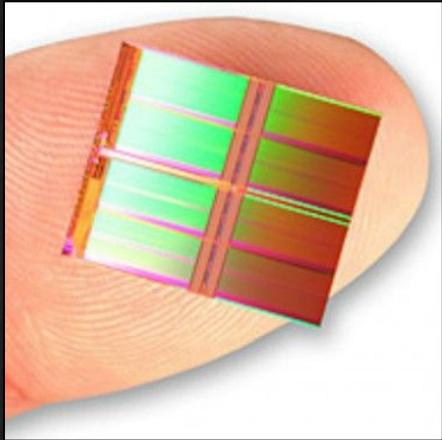




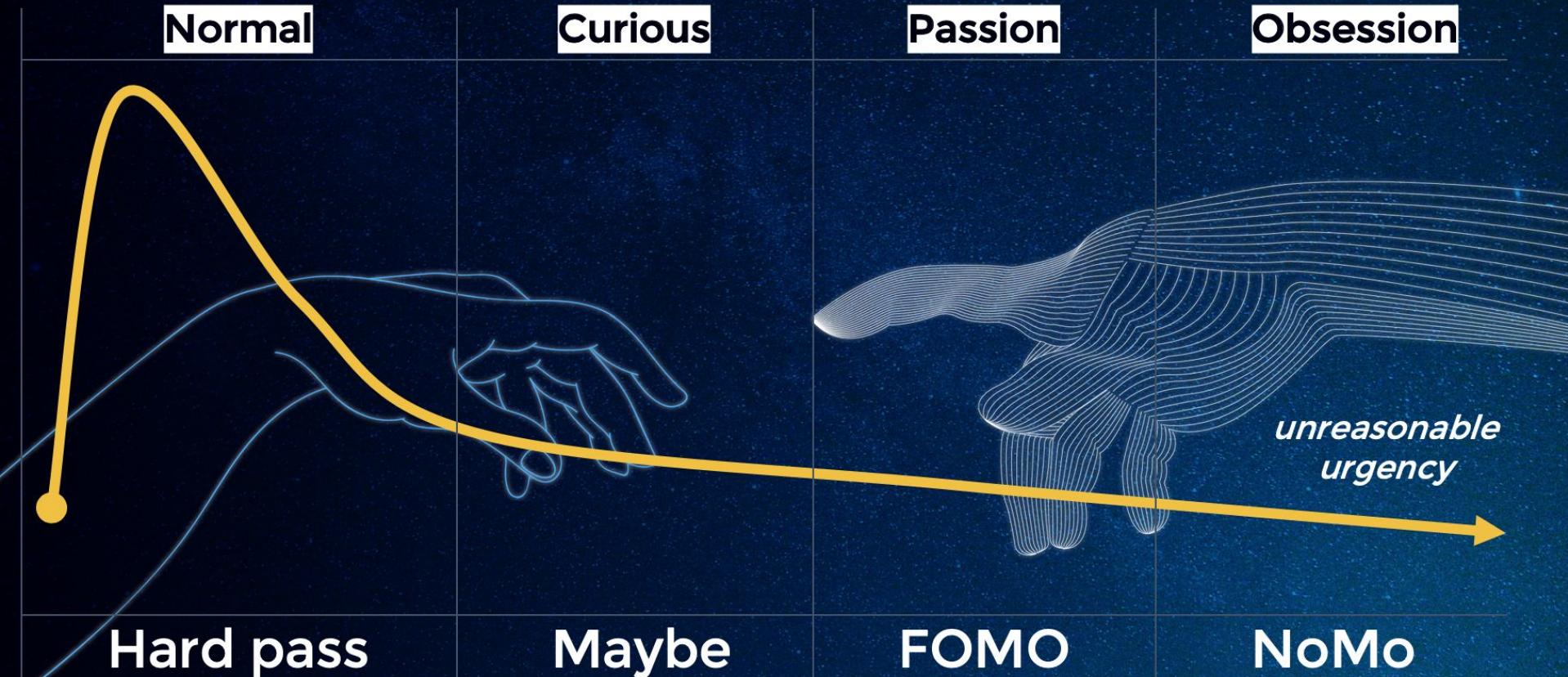
2018
2000ft

@bentaylordata

Personal Introduction



@bentaylordata



@bentaylordata



DATASCIENCE **GO**

9 1 2 5 0 0 6 6 4
7 0 1 6 3 6 3 7 0
7 7 9 4 6 6 1 8 2
9 3 4 3 9 8 7 2 5
5 9 8 3 6 5 7 2 3
3 1 9 1 5 8 0 8 4
6 2 6 8 5 8 8 9 9
7 7 0 9 4 8 5 4 3

*Typical
hello world*



Square Feet

* Floor 1: 5400 sq. ft.

Lot Size In Acres

* Acres: 1.84



Exterior Features Include

- Exterior: See Remarks; Basement Entrance; Deck; Covered; Double Pane Windows; Entry (Foyer); Horse Property; Outdoor Lighting; Patio: Covered; Porch: Open; Sliding Glass Doors; Stained Glass

- Bath: Sep. Tub/Shower
- Den/Office
- Gas Log
- Mother-in-Law Apt.
- Range: Gas
- Theater Room
- Air Conditioning: Central Air; Electric

Property Facts

Days on URE
106

Status
Active

MLS#
1533756

Type
Single Family

Style
Rambler/Ranch

Year Built
1996

This Alpine Estate provides for a one of a kind enclave away from the urban hustle. The custom design of the home utilizes the views out all directions for placemaking that is beyond its contemporaries. Set adjacent to government properties including horse riding, world class bike riding, rodeo, hiking, and a waterfall, the backyard defines privacy and outdoor access. With a replacement value north of three Million, this home affords unique details, quality craftsmanship, and status. The architecture and design contain elements including over 10 interior spaces that spill out to the exterior, service entries, privacy, bathroom convenience, transom designs to carry light, and basement suites that are wheelchair possible with a second kitchen. The construction quality also sets the standard of luxury with unique 12" Norman Brick around the entire house with a tile roof, a minimum of 12' ceilings up to 24' on the main floor, custom woodwork extending floor to ceiling in some rooms, new cherry flooring in kitchen and dining, marble thresholds, art niches, circular stairway, \$40,000 custom chandelier, marble countertops, and a safe room. The backyard features a 250' stream and waterfall, sports court, two combined lots, and circular driveway with plenty of parking.

Property Features

Interior Features Include

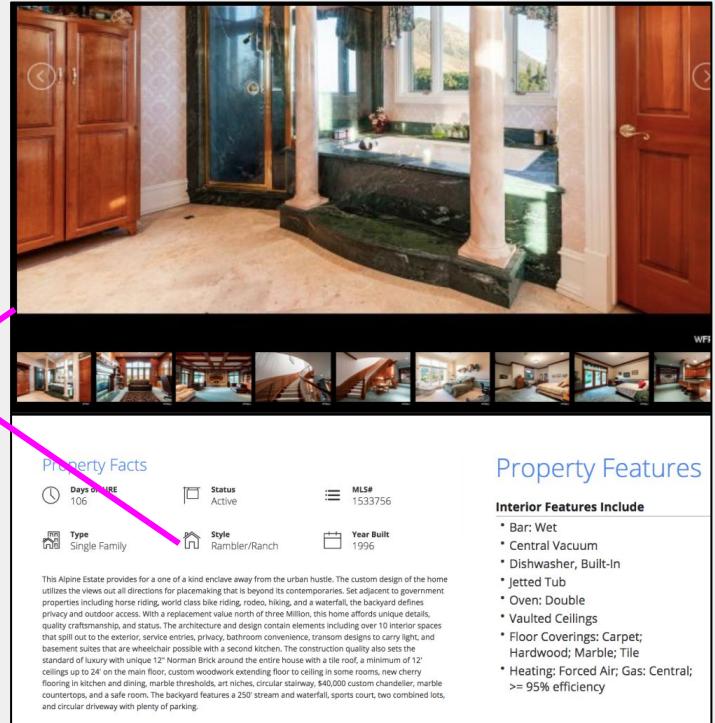
- Bar: Wet
- Central Vacuum
- Dishwasher, Built-In
- Jetted Tub
- Oven: Double
- Vaulted Ceilings
- Floor Coverings: Carpet; Hardwood; Marble; Tile
- Heating: Forced Air; Gas: Central; >= 95% efficiency
- Bath: Master
- Closet: Walk-In
- French Doors
- Kitchen: Second
- Range: Countertop
- Granite Countertops
- Window Coverings: Blinds; Draperies
- Basement: (95% finished) Daylight; Entrance; Full; Walkout



ZIFF

Transform your business with Ai in weeks not years... with your existing team

```
cloud.schema.RecordData ▼ {  
    name*  
  
    cloud.schema.RecordDataName ▼ {  
        uniqueName*  
            string  
            minLength: 1  
  
        sortKey  
            > {...}  
            boolean  
  
        holdoutRecord  
        ttl  
            > {...}  
    }  
  
    context*  
  
    ▼ [cloud.schema.RecordDataContext ▼ {  
        name*  
            string  
            minLength: 1  
            value*  
            string  
            minLength: 1  
            dataType*  
            string  
            Enum:  
  
            target*  
                > Array [ 3 ]  
                string  
                Enum:  
  
        }]  
  
    files*  
  
    ▼ [cloud.schema.RecordDataFiles ▼ {  
        uri*  
            string  
            fileType*  
            string  
            Enum:  
  
            > Array [ 6 ]  
            string  
            > [...]  
    }]
```



The image shows a real estate listing for a property. At the top is a photograph of a bathroom featuring a large soaking tub with a waterfall head, a glass-enclosed shower, and a double sink vanity. Below the photo is a grid of smaller thumbnail images showing various rooms of the house. The main listing details include:

Days on MARKET: 106	Status: Active	MLS# 1533756
Type: Single Family	Style: Rambler/Ranch	Year Built: 1996

Property Facts

This Alpine Estate provides for a one of a kind enclave away from the urban hustle. The custom design of the home utilizes the views out all directions for placemaking that is beyond its contemporaries. Set adjacent to government properties including horse riding, world class bike riding routes, hiking, and a waterfall, the backyard defines privacy and outdoor access. With a replacement value north of three Million, this home affords unique details, quality, craftsmanship, and stature. The architecture is a blend of modern elements including over 10 interior spaces that open out to the exterior spaces for privacy, light, and convenience. The interior features include high ceilings, light, and basement suites that are wheelchair possible with a second kitchen. The construction quality also sets a standard of luxury with unique 12' Norman Brick around the entire house with a tile roof, a minimum of 12' ceilings up to 24' on the main floor, custom woodwork extending floor to ceiling in some rooms, new cherry flooring in kitchen and dining, marble thresholds, art niches, circular staircase, \$40,000 custom chandelier, marble countertops, and a safe room. The backyard features a 250' stream and waterfall, sports court, two combined lots, and circular driveway with plenty of parking.

Property Features

Interior Features Include

- Bar: Wet
- Central Vacuum
- Dishwasher, Built-in
- Jetted Tub
- Oven: Double
- Vaulted Ceilings
- Floor Coverings: Carpet; Hardwood; Marble; Tile
- Heating: Forced Air; Gas: Central; >= 95% efficiency

Structured

Text

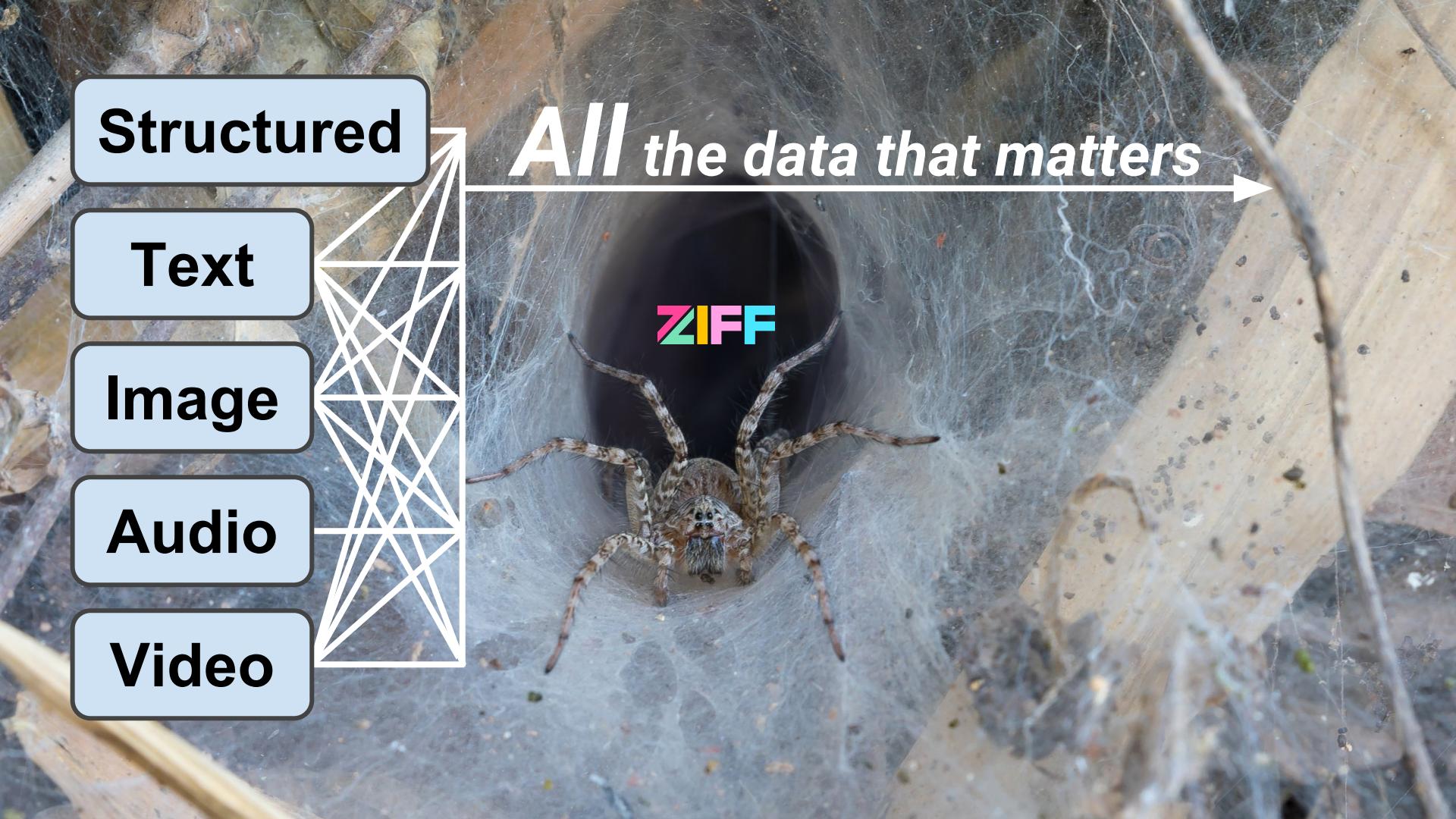
Image

Audio

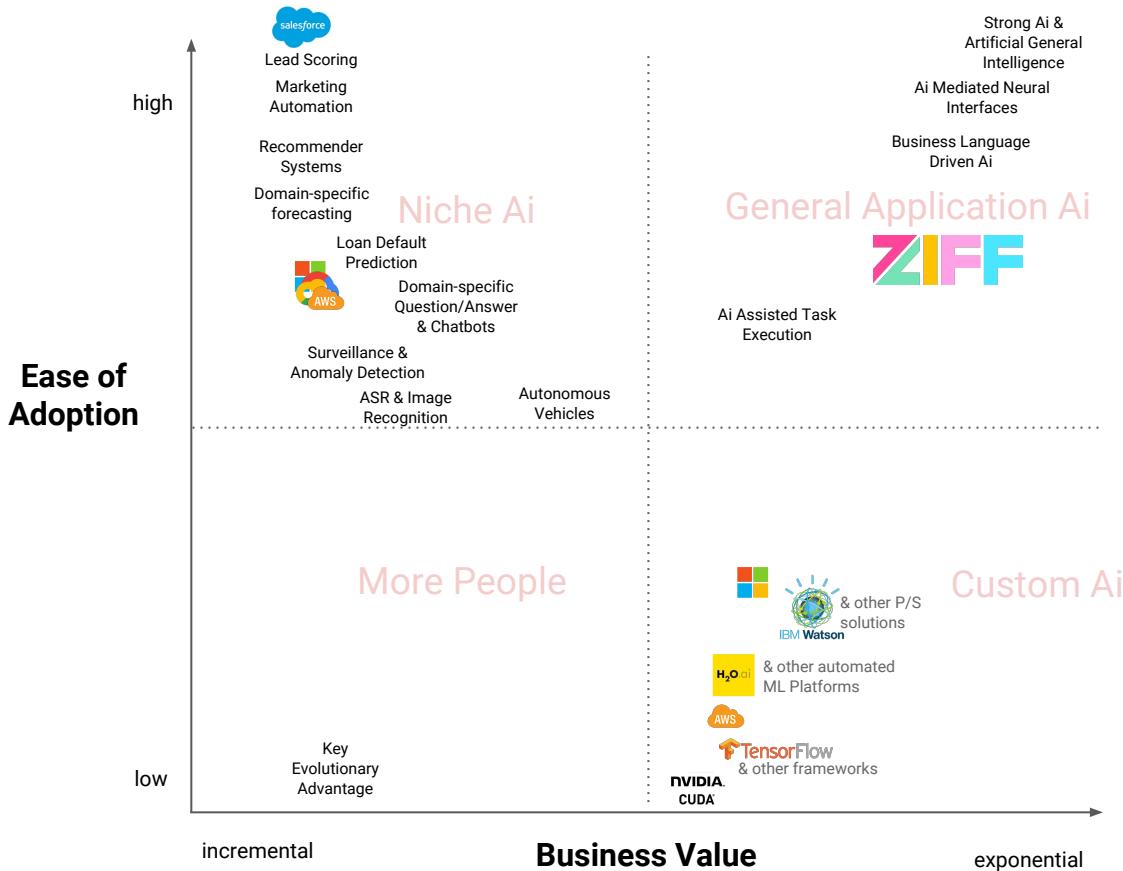
Video

All the data that matters

ZIFF



Ai (Classic Machine-Learning + Deep-Learning) Landscape



Simplify

Chaos and confusion run rampant with large companies each backing their own solution and thousands of niche solutions that each require a siloed implementation.

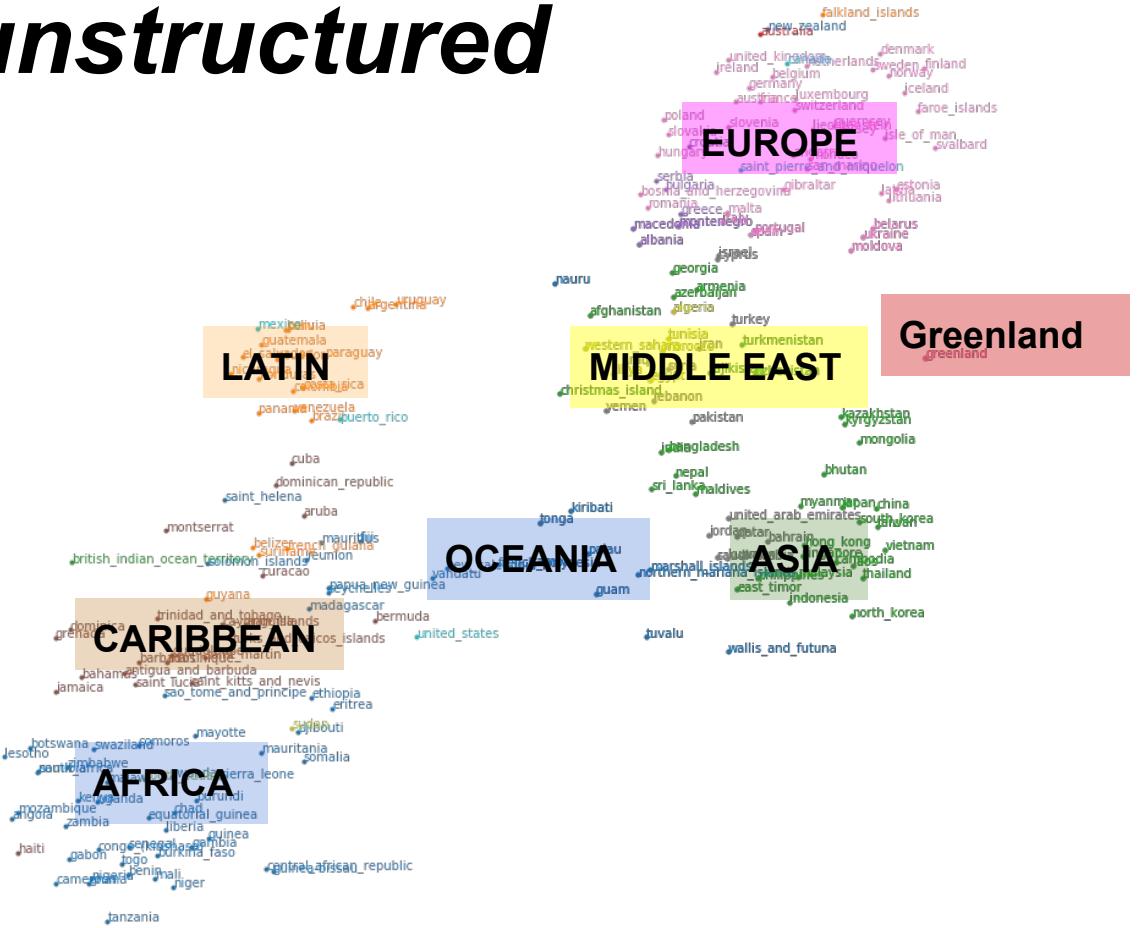
Amplify

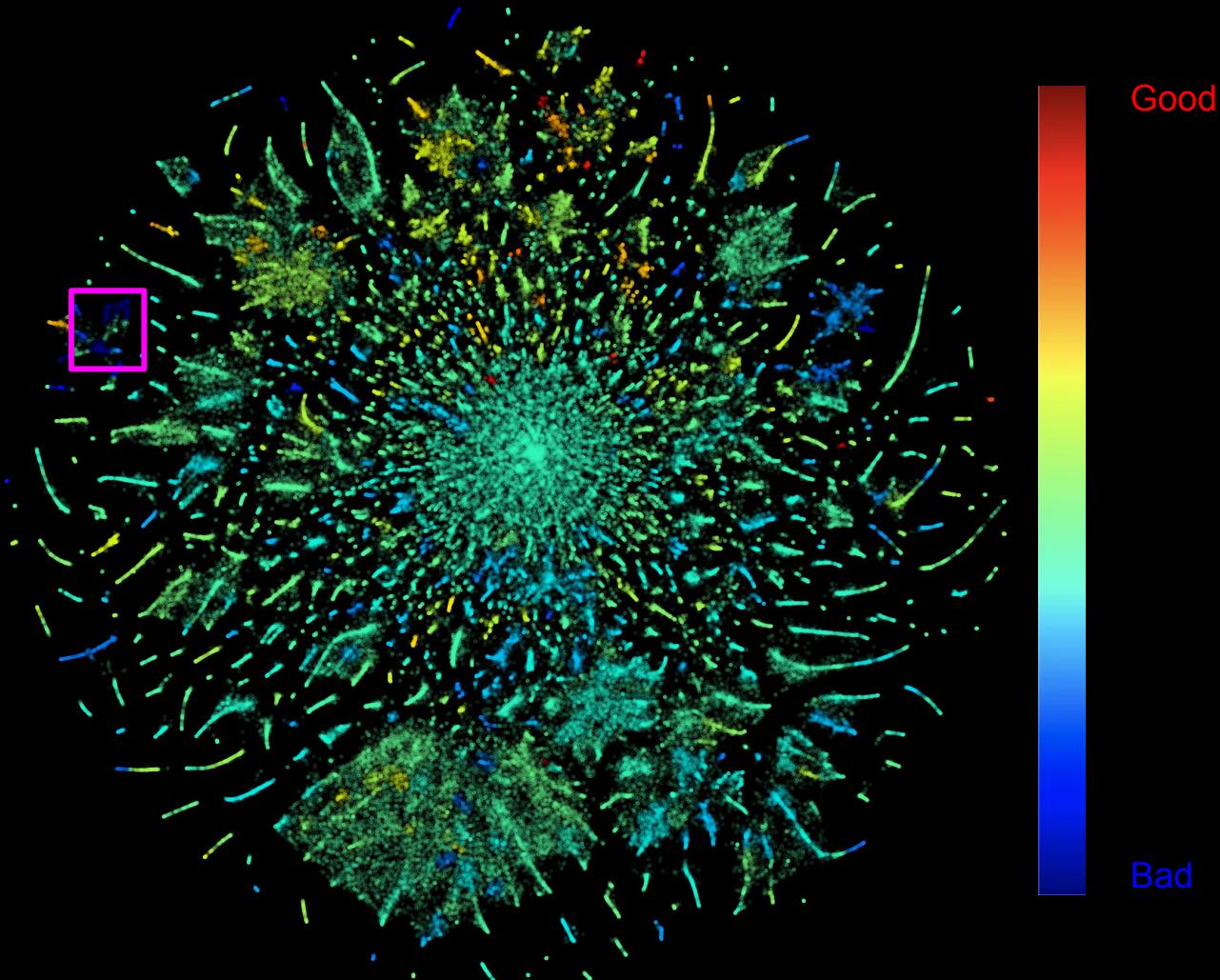
ZIFF aims to empower 25M enterprise software developers with a solution that sits at the bottom of the stack where they all expect data and analytics to live.

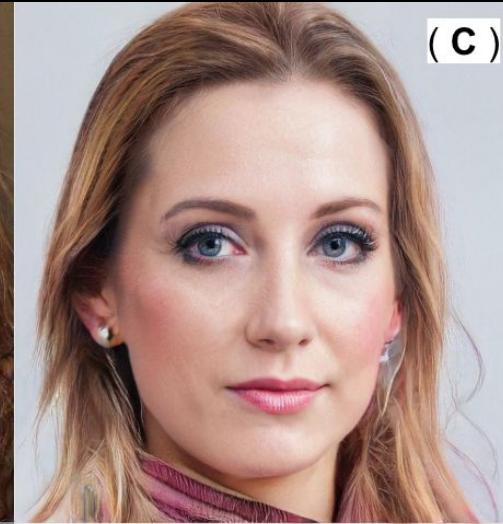
Transform

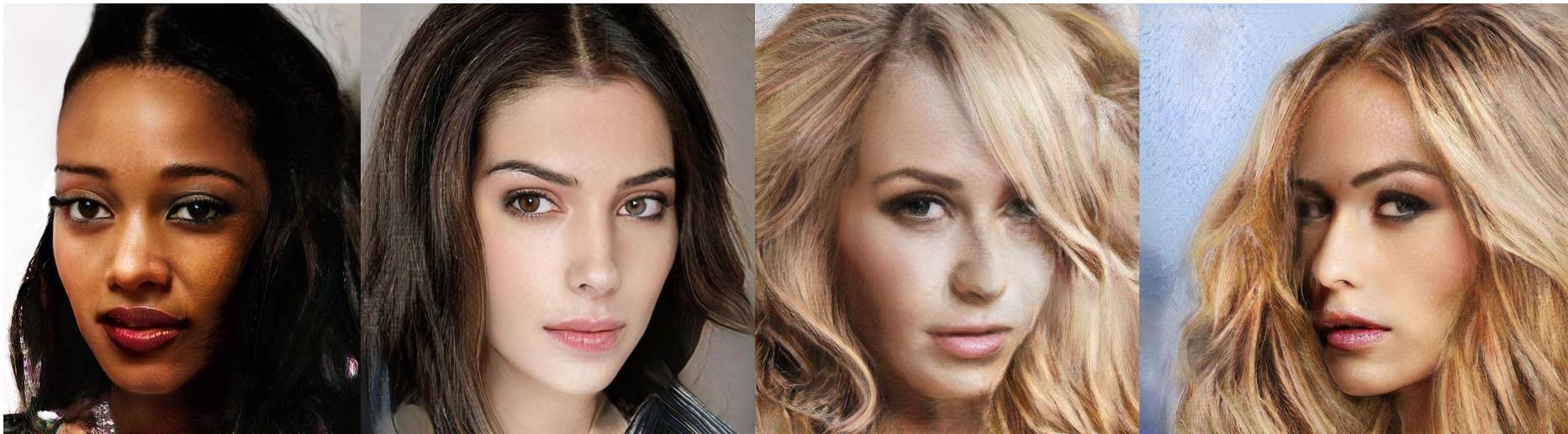
General Application Ai focuses on transformative business problems not the Science Projects

Structuring unstructured data





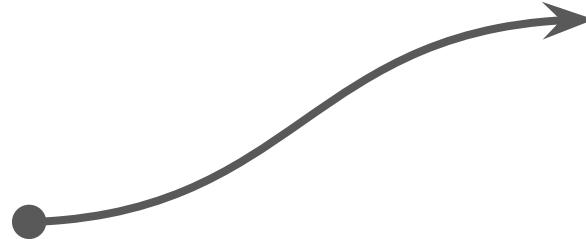


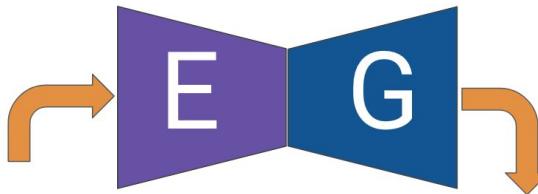


g0



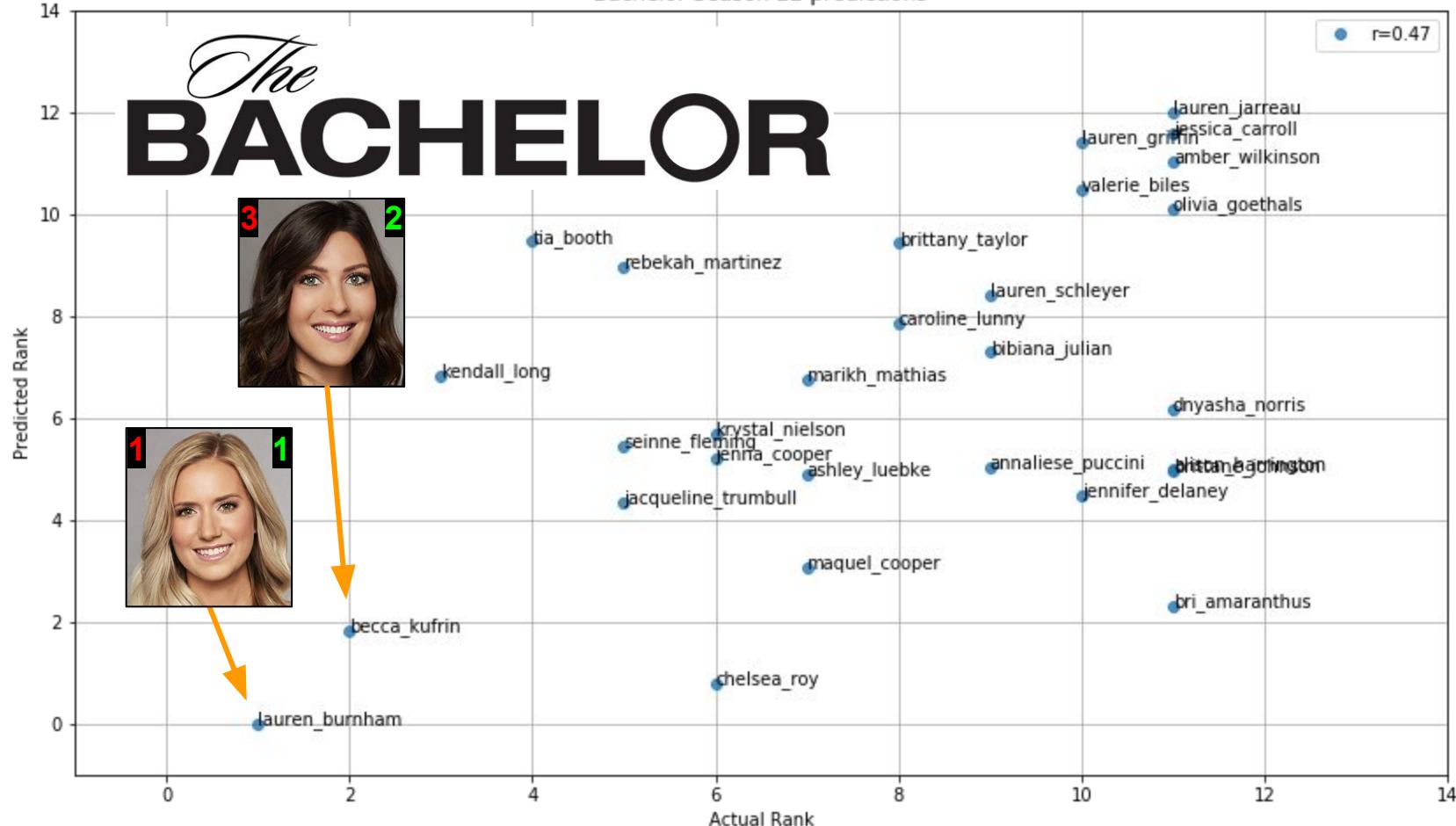
g100





4 months later

Bachelor Season 22 predictions



Video References

UCF101



Using Ring Video

Can we manage a large amount of video effectively?

Code

Issues 13

Pull requests 2

Insights



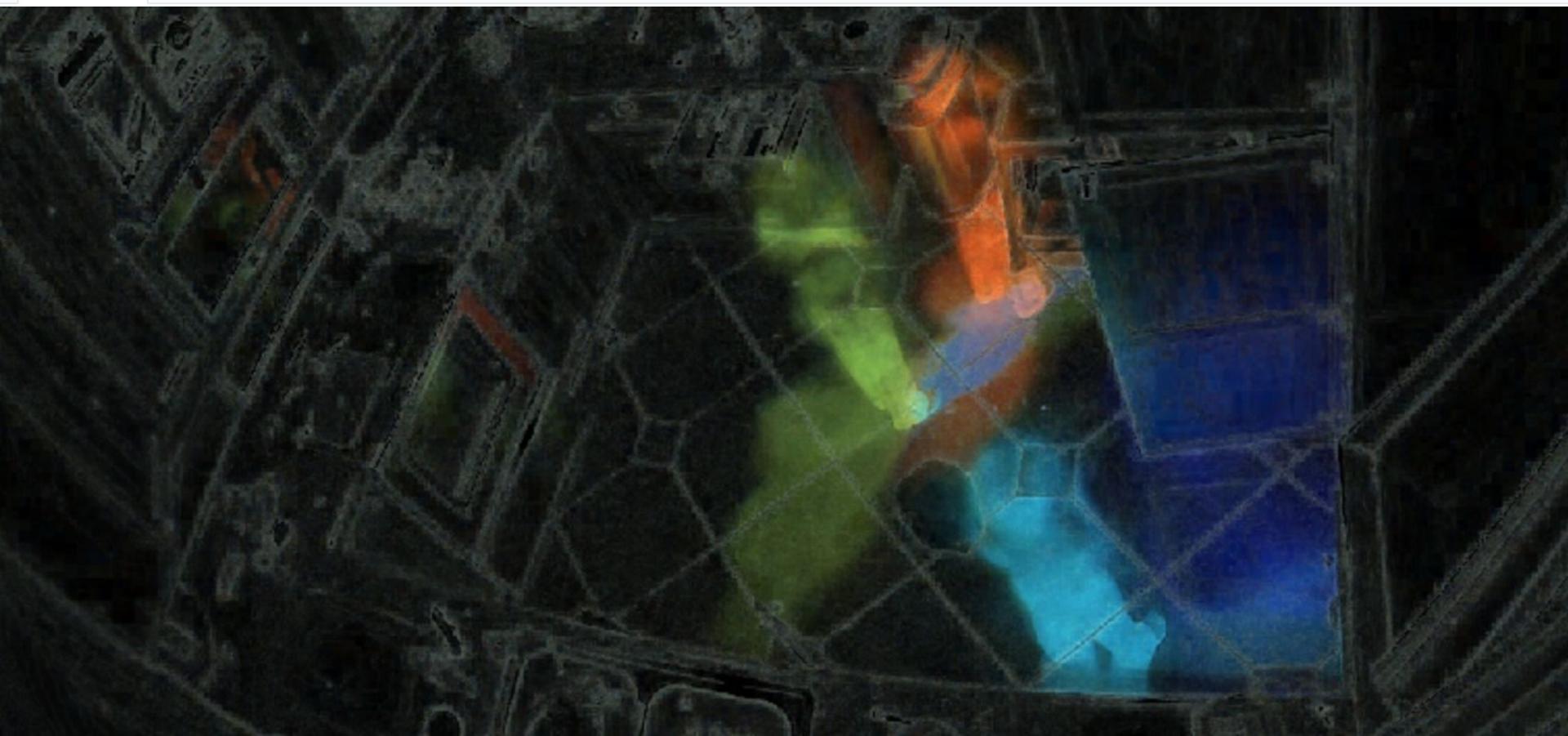
[Code](#)[Issues 13](#)[Pull requests 2](#)[Insights](#)

 Code

 Issues 13

 Pull requests 2

 Insights



[Code](#)[Issues 13](#)[Pull requests 2](#)[Insights](#)



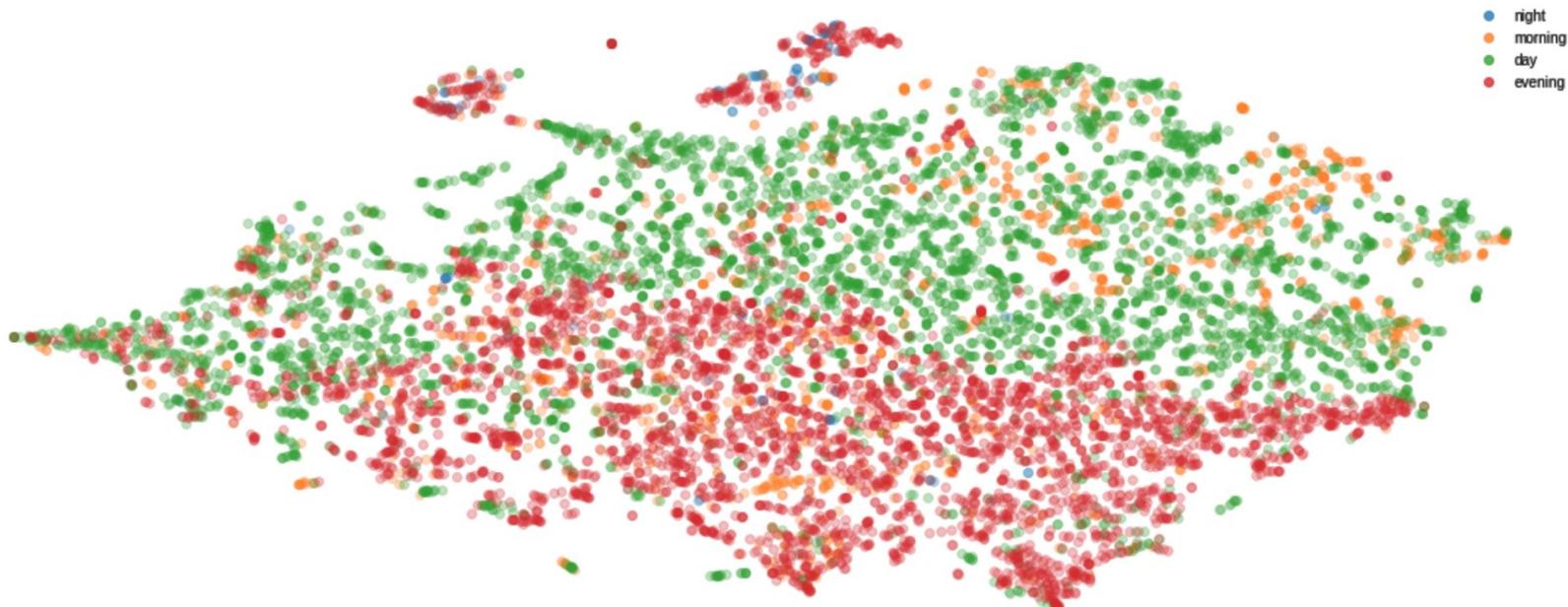
Code

Issues 13

Pull requests 2

Insights

Python Ring Door Bell is a library written in Python 2.7/3x that exposes the Ring.com devices as Python objects.



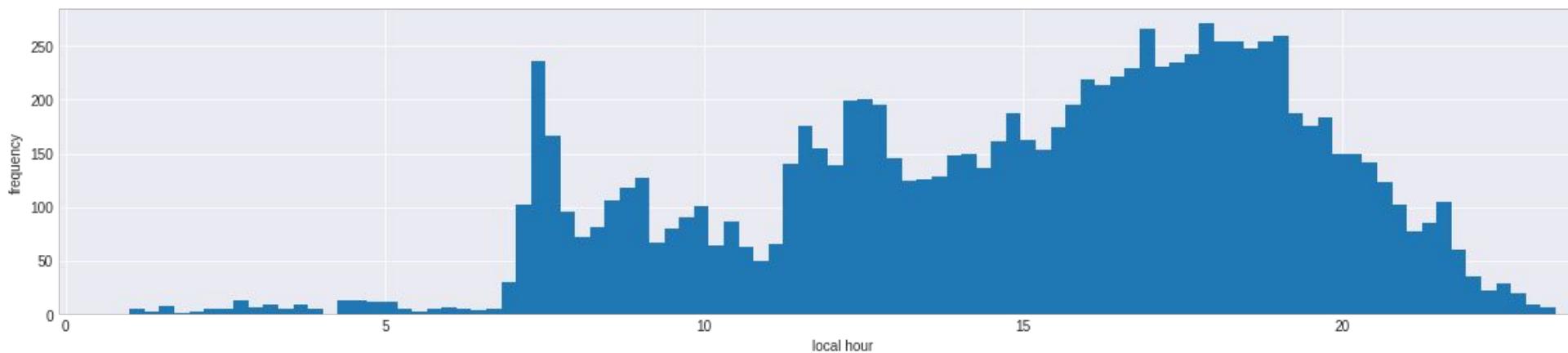
Code

Issues 13

Pull requests 2

Insights

Python Ring Door Bell is a library written in Python 2.7/3x that exposes the Ring.com devices as Python objects.



Using Xbox Video

Is it possible to beat a 7yr old with GPUs in 2019?

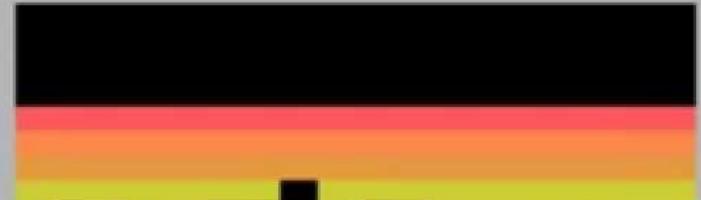


ima...

-



02 | 3 |







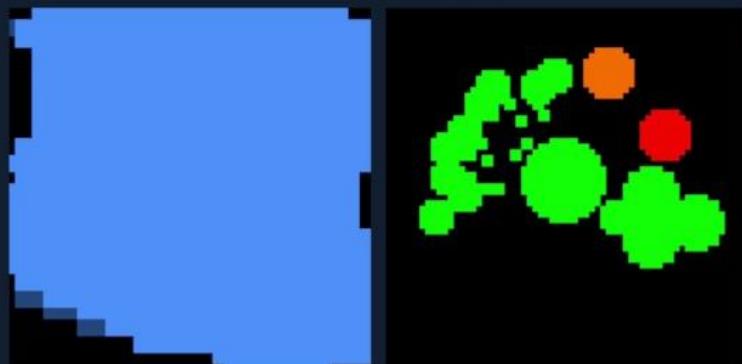
TYPE

PLAYER



VISION

HEALTH





Log Невидимка
[Nice]TriggaManNOLA

[Nice]TriggaManNOLA





How can I make you play yourself?

Gimx.fr adapter



MiraBox Capture Card, USB 3.0 HDMI



```
1 sudo apt-get install v4l-utils  
2 v4l2-ctl --list-devices
```

```
1 ubuntu@hacktop:~$ v4l2-ctl --list-devices  
2 MiraBox Video Capture: MiraBox (usb-0000:00:14.0-1.3):  
3     /dev/video0  
4  
5 BisonCam, NB Pro: BisonCam, NB (usb-0000:00:14.0-11):  
6     /dev/video1
```

```
command = ["ffmpeg",
           '-i', local_video_path,
           '-f', 'rawvideo',
           '-vcodec', 'rawvideo',
           '-ss', '00:00:00',
           '-t', f'00:00:{temporal_window}',
           '-s', f'{resize}x{resize}',
           '-pix_fmt', 'rgb24',
           '-']
```

```
command = ["ffmpeg",
           '-f', 'v4l2',
           '-framerate', '10',
           '-i', '/dev/video0',
           '-input_format', 'mjpeg',
           '-preset', 'faster',
           '-f', 'rawvideo',
           '-vcodec', 'rawvideo',
           '-s', f'{resize}x{resize}',
           '-pix_fmt', 'rgb24',
           '-']
```

```
command = ["ffmpeg",
           '-f', 'v4l2',
           '-framerate', '10',
           '-i', '/dev/video0',
           '-input_format', 'mjpeg',
           '-preset', 'faster',
           '-f', 'rawvideo',
           '-vcodec', 'rawvideo',
           '-s', f'{resize}x{resize}',
           '-pix_fmt', 'rgb24',
           '-']
```

```
1 buffer_byte_size = resize*resize*color_space*frames_in_buffer  
2 pipe = subprocess.Popen(command,  
3                         stdout = subprocess.PIPE,  
4                         bufsize= buffer_byte_size*buffer_queue_pad)
```

```
1 buffer_byte_size = resize*resize*color_space*frames_in_buffer
2 pipe = subprocess.Popen(command,
3                         stdout = subprocess.PIPE,
4                         bufsize= buffer_byte_size*buffer_queue_pad)
```

```
1 buffer=[]
2 data_type = np.uint8
3 while True:
4     video_bytes = pipe.stdout.read(buffer_byte_size)
5     #print('video_bytes:',video_bytes)
6     dim = [-1, resize, resize, color_space]
7     frame = np.frombuffer(video_bytes, data_type).reshape(dim)
8     buffer.append(frame)
9     current_time = time.time()
10
11    if len(pipe.stdout.read(buffer_byte_size))==0:
12        logger.debug(f'empty buffer, finished in {current_time-start_time}')
13        break
14
15    if (current_time-start_time)>max_stream_time:
16        logger.debug(f'max time exceeded, quitting {current_time-start_time}')
17        break
```



TriggaManNOLA



14:32



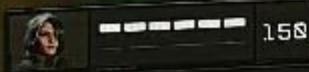
△ kill



[iBad]Call Me Kaotic

[Imao]rappernerd2104 Connected
troy tha truth7 Connected

[FaZe]AskewMercury435 - [iBad]mousespartan13





14:31



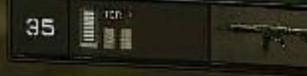
△kill

[iBad]Call Me Kaotic

[FaZe]AskewMercury455 [iBad]mousespartan10



35





0 1
14:28

ADME Rx Capsule x12





Third eye?!!



0 1

14:28







2 3

14:03

traytha truth7 changed to Nomad

Lor Hez [ADME]xxLorHezxx722
metaheuristic [GoodGuyTM]
Lor Hez [SWAO]badRightTeam

150

EKTA | 30 DAMAGE DEAL

GRTRICK
[Eco]

53



21

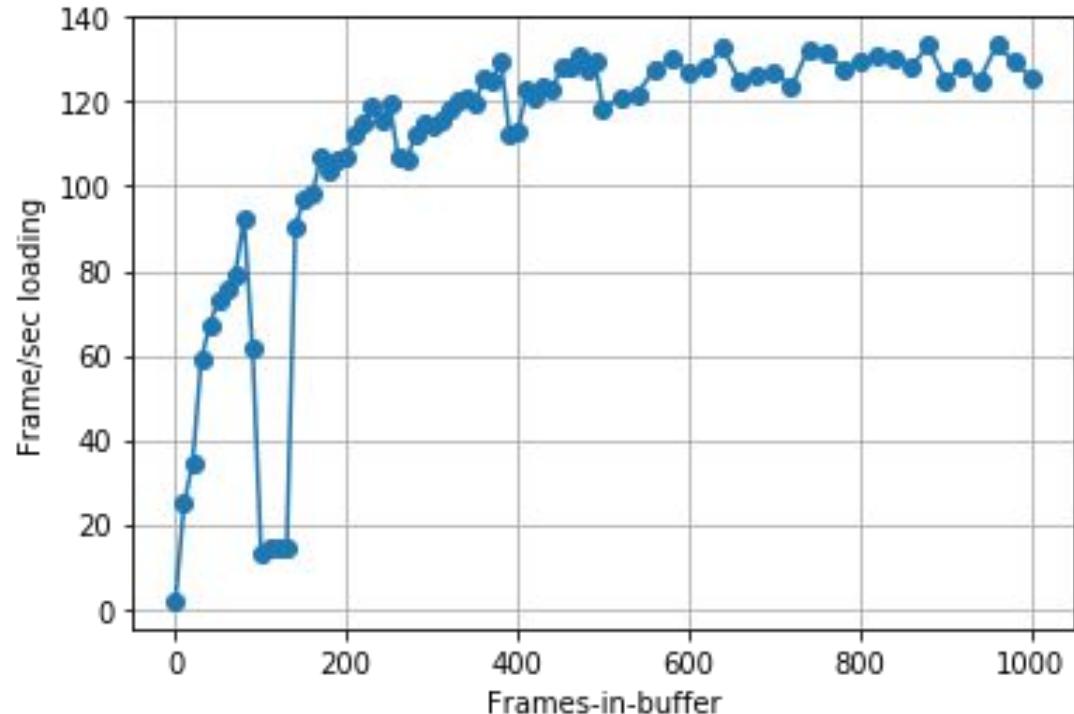
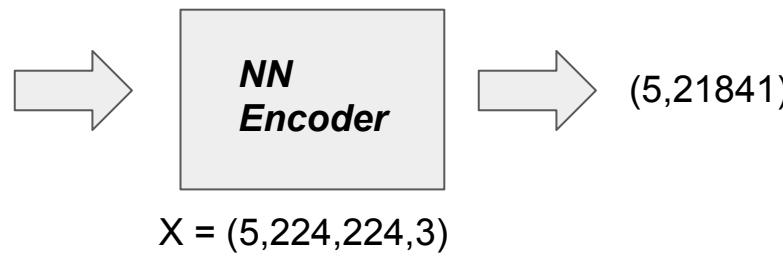
100%
446

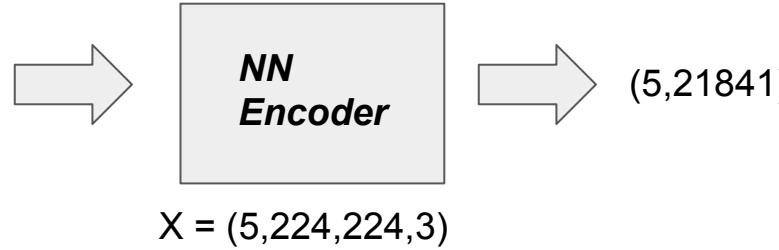
+ 1.88 Seeker Destroyed

Lor Hez



. REGION OF INTEREST .

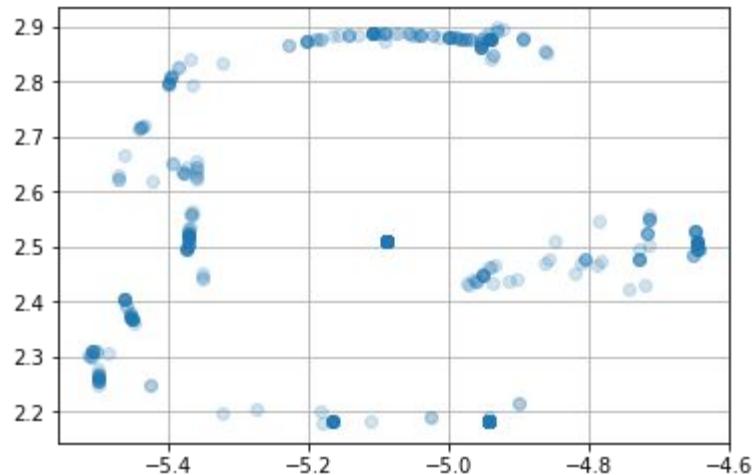
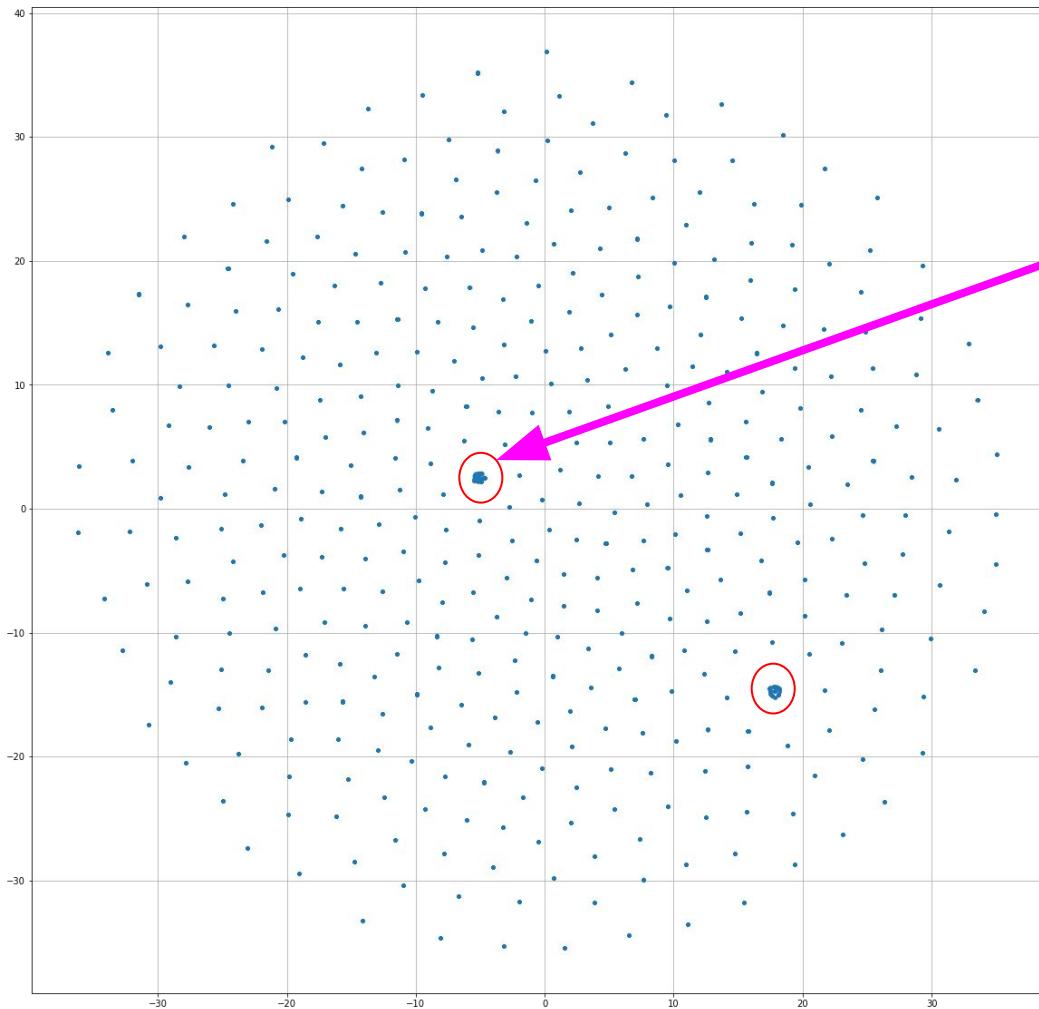


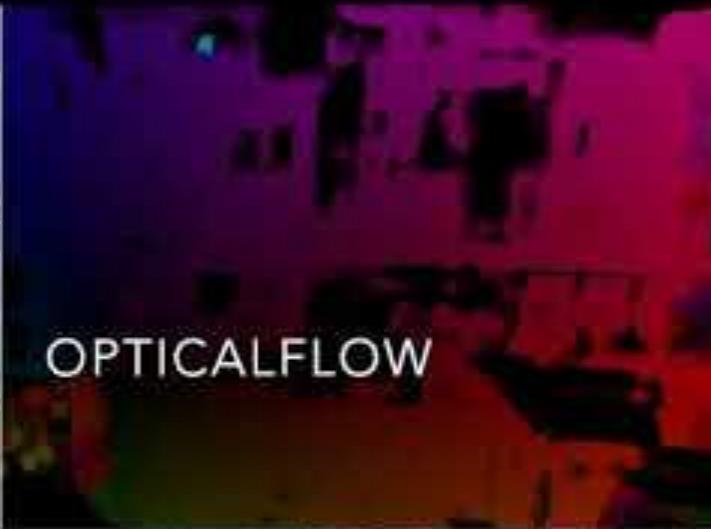


1.2Gb Mkv file

=>

17Gb float32 matrix

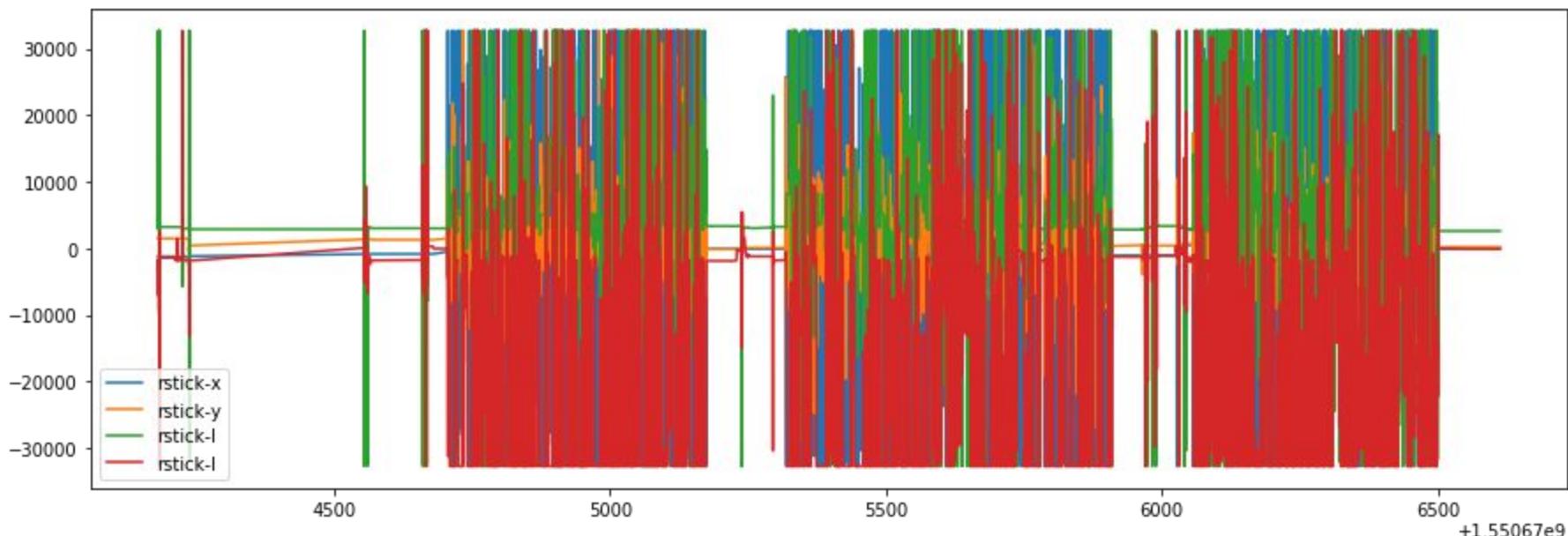




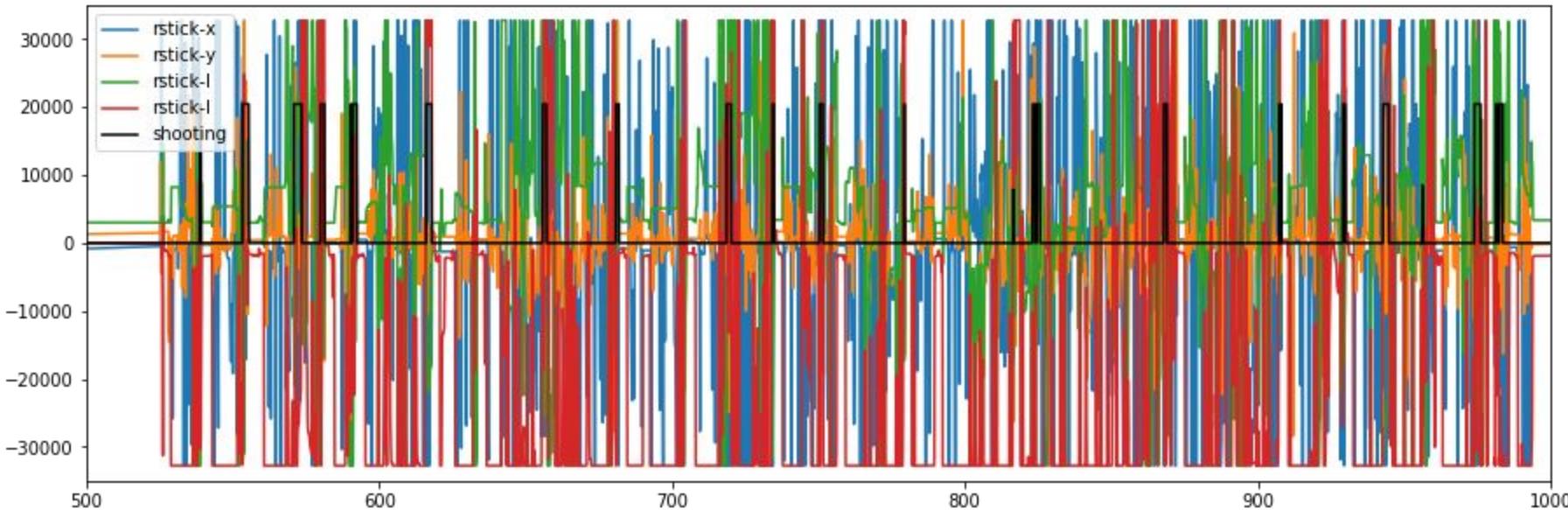
Using Xbox Controller

Is it possible to beat a 7yr old with GPUs?

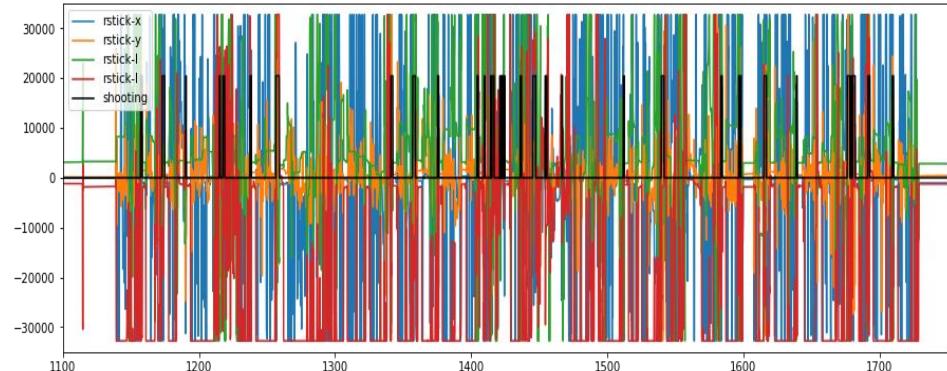
	A	B	LB	LS	LT	RB	RS	RT	X	Istick x	Istick y	Rstick x	Rstick y
1550674180.175644	255	0	0	0	0	0	0	0	0	2989	-1771	-1222	1498
1550674180.515628	0	0	0	0	0	0	0	0	0	2989	-1771	-1222	1498
1550674181.203647	0	0	0	0	0	0	0	0	0	3086	-1771	-1222	1498



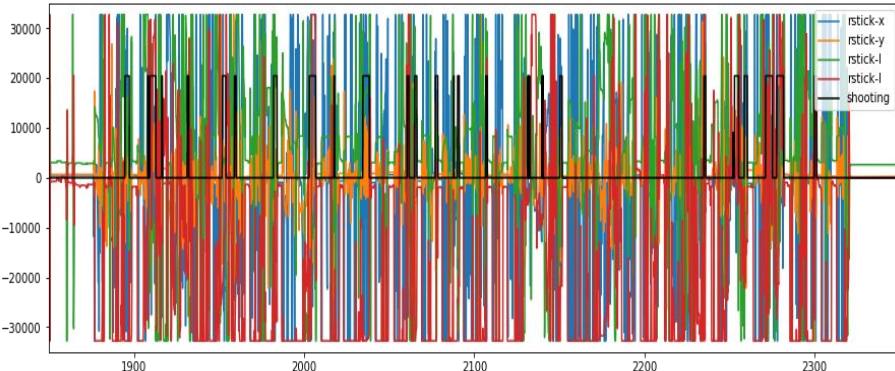
Game1



Game2



Game3

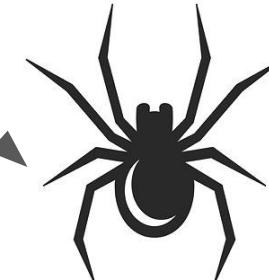
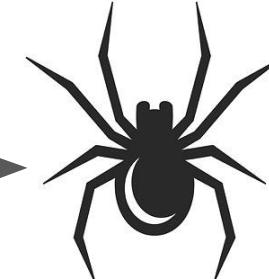
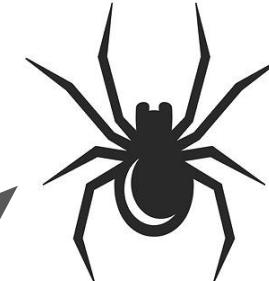




Comprehend the group's sensory information

Control the group

**NN
Encoder**



$$Y = (3, 15)$$

