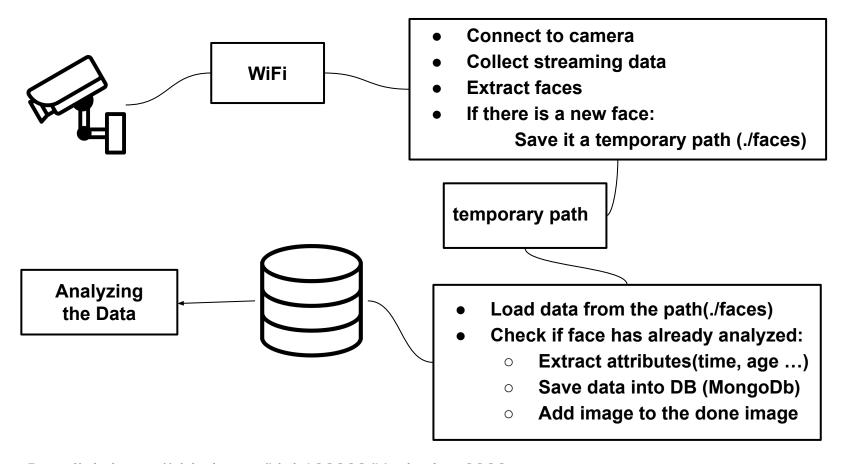
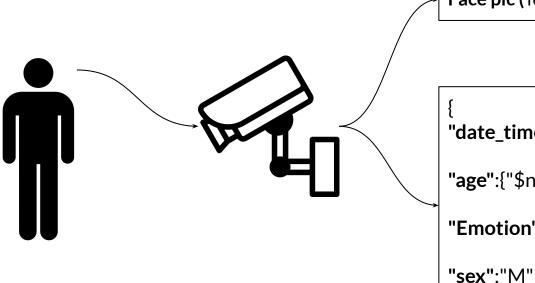




Hamid Omidi, Ludovico Valenti, Alessia Meloni



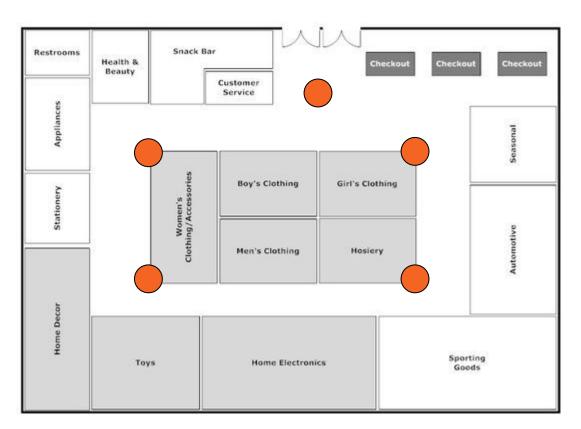


Face pic (Temporarily) | Normalized, Aligned

```
{
"date_time":"Sat May 11 2022 21:50:13",

"age":{"$numberInt":"32"},

"Emotion":"sad",
```



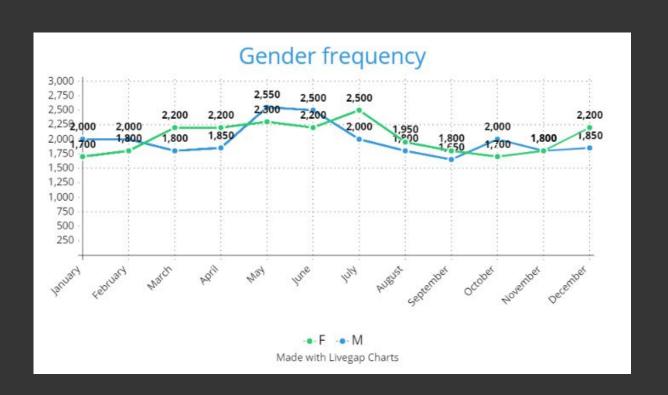
- Sections that a person visited
- Spent time



How can we use the data?

_

Data analytics



Entrance Emotion - Exit Emotion

Overall emotional Impact

```
{
"_id":{"$oid":"636ecf7eaf93c0615f3705b0"},

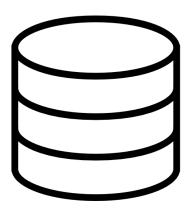
"date_time":"Sun May 15 15:50:13 2022",

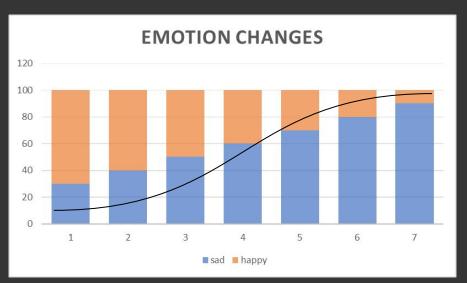
"age":{"$numberInt":"32"},

"Emotion":"sad",
```

"sex":"M"

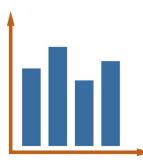






Predicting the product sale based on the emotional changes

Increase(sad) → Increase(A, S)



Neutral, F, Old \rightarrow Mon

	date_time	age	emotion	sex	sec
0	2022-06-04 21:23:00	32	surprised	М	3
1	2022-08-16 02:52:10	60	surprised	F	3
2	2022-02-20 15:15:53	36	neutral	M	1
3	2021-12-24 20:54:44	60	surprised	F	1
4	2022-06-01 13:22:28	42	fear	M	3
	(557)	***	555	555	557
995	2022-05-08 19:29:58	42	neutral	М	2
996	2022-01-04 18:54:19	52	disguised	F	1
997	2022-02-06 06:12:02	37	fear	F	2
998	2022-06-27 19:04:42	36	disguised	F	2
999	2022-09-06 19:03:20	56	neutral	М	2

- Enrich section 1 on Mondays
- Increase the prices on section 1:



Prediction Of section

Neutral, F, Old \rightarrow sec 1

Future improvements

Infrastructure

• Replace temporary path with Queue(e.g. Redis) for efficiency

Core

- Use Multi Camera Multi Object tracking Reidentification
- Add other data (dresscode, color and ...)



Thanks; Decode

Understand your customers

Costumer Decoder



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