Do Our Best to Understand Data In Its Context

Making Real AI - Series

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Context is

The situation within which something exists or happens, and that can help explain it (Cambridge Dictionary, 2019)



Problem

Data points have their context we didn't capture.











(Facebook photo knee boobs breast, 2012)

Problem

Resupplying context into data and re-training is an endless process.

Gender	Age	Overall survival (months)
М	47	8
М	69	
F	73	2
F	39	
F	55	12
М	63	
М	73	12
М	73	14
М	75	32

Gender	Age	Smoking	Overall survival (months)
М	47	6	8
М	69	0	
F	73	0	2
F	39	0	
F	55	0	12
М	63	60	
М	73	9	12
М	73	8	14
М	75	30	32

Gender	Age	Smoking	Pathology	Stage	Overall survival (months)
M	47	6	Ad-Sq	II	8
М	69	0	Ad	IV	
F	73	0	Ad	IV	2
F	39	0	NSCLC	IV	
F	55	0	Ad	III	12
М	63	60	sq	1	
М	73	9	Ad	IV	12
М	73	8	Ad	IV	14
М	75	30	sq	I	32

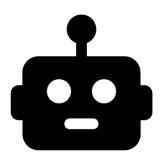
No context

More context

Even more context

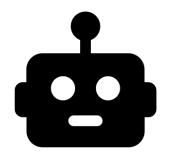


Lung cancer data source (Shan et al., 2017)



I am bomb detector for security.





Here's a bomb!

Danger!

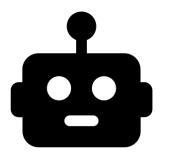


Picture source (F Bomb T-Shirt, n.d.)







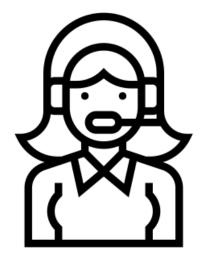


I didn't do any wrong!

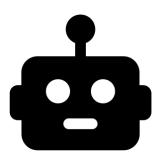
This is not the case I supposed to handle!

I can only achieve what you have defined and learn contextual information you have given in the data!





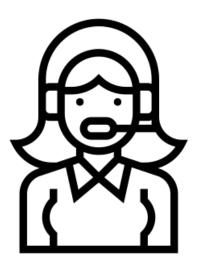




Let's redefine the task and do re-training!

And, think clear about what you really want me to do.







Are you really satisfied with such Al?



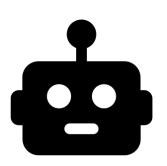
Do you accept others (or ourselves) drawing the line of responsibility?



Shouldn't we do our best, across any line of responsibility, to solve problems?



The Right Solution - Integrating All Data for Dynamic Problem Domain



I am continually learning all things.







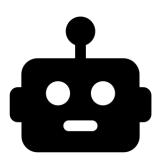








The Right Solution - Integrating All Data for **Dynamic Problem Domain**



Integrating all information into one systematic knowledge!













Milk helps sleep.

Asians could not digest milk well.

Milk has high quality proteins.

Whey is milk product.

By producing whey, businessmen can make more money than selling milk alone.

Traffic drives global economy.

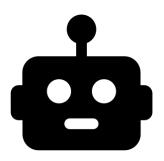
Oil drives global economy.

Oil price is heavily affected by weather.



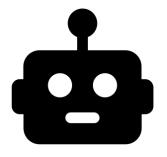
With integrated knowledge, the machine will be more aware of contexts.





Now my job is bomb detector for security.



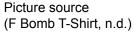


A bomb picture on a T-shirt! (context)

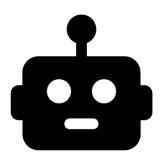
My job is security.

This is not danger at all!!



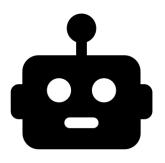






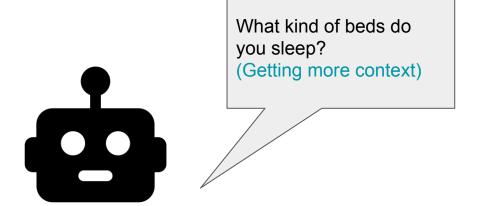
Now my job is medical assistant

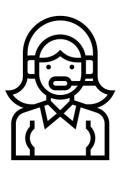




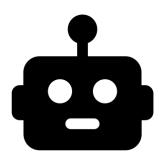


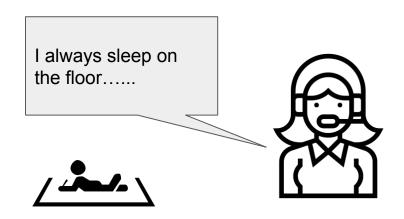










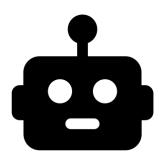






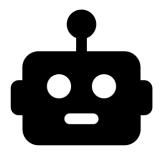






Now my job is a news commenter.





A wound person.....

The hat...the dress...as I learnt (context)

He should be a soldier.

Don't fish for sympathy, man!





- for TRUTH





Stop Others/Yourselves from Drawing a Line of Responsibility.

Without Trying to Link All Machine Learning Data and Models Into One Integrated Knowledge System, Doing Task-specific Machine Learning Means You're Not Doing Your Best to Solve the Problems.



Start to Build Your Machine Knowledge Integration TODAY

Start Your AGI Journey, for Service Quality and Responsibility, TODAY

Really Do Our Best to Understand Data in Its Context, from TODAY.



How to Integrate All Data for Dynamic Problem Domain?

See Our Learning Context is All You Need for Task-general Artificial Intelligence. (link)

And Our Future Decks of Slides.



Reference

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